

STATE OF OHIO  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF GEOLOGICAL SURVEY  
RALPH J. BERNHAGEN, CHIEF

**REPORT OF INVESTIGATIONS NO. 56**

**SUMMARY OF  
OIL AND GAS ACTIVITY  
IN OHIO DURING 1964**

**By**

**Donald L. Norling  
Theodore A. DeBrosse  
William J. Buschman, Jr.**

**COLUMBUS  
1965**

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## ABSTRACT

Major oil and gas development in Ohio during 1964 occurred in the central portion of the state with intensive activity in exploitation of the Copper Ridge ("Trempealeau") Dolomite of Cambrian age. Development of the Silurian Albion Sandstones ("Clinton"), and of the Mississippian Berea Sandstone continued at a steady pace. Total number of new wells drilled was 2,665, of which 202 were gas wells, 717 were oil wells, 187 were combination wells, and 1,559 were failures. Total new footage drilled was 8,128,219 feet, of which 4,426,780 feet was in Morrow County. Secondary recovery, storage, workover, and miscellaneous wells totaled 170, and increased the total drilled footage for the year to 8,408,026 feet. Far wildcat drilling totaled 563 tests, and resulted in the discovery of a number of local areas of production in central Ohio, and in several discoveries in outlying areas. Annual production was 15,850,000 barrels of oil, valued at \$46,669,630 and 37,713,000 thousand cubic feet of natural gas, valued at \$8,862,555. Ohio ranked seventeenth among the oil-producing states, and fifteenth among the gas-producing states.

## INTRODUCTION

### ORGANIZATION OF REPORT

The activities in drilling and recompleting wells for oil and gas in Ohio during 1964 are tabulated, and discussed briefly in this report. The basic tabulation is a **LIST OF OPERATIONS** wherein all known activities in each county are grouped in categories such as new wells drilled, wells drilled deeper, wells worked over, wells plugged back, old wells abandoned, storage wells, secondary recovery wells, and similar groupings.

From the data in the **LIST OF OPERATIONS** a series of tables have been compiled to summarize the total new wells by counties (Table I), number and percent of well completions (Table II), the total wells by producing zones (Table III), total wells by producing zones and counties (Table IV).

Other illustrations included are tables showing annual production for the 1955-1964 period by crude oil production and reserves (Table V), by crude oil production by grades (Table VI), by gas production, consumption, and reserves (Table VIII). Basic crude oil price quotations by grades for the 1963-1964 period are found in Table VII.

### ACKNOWLEDGMENTS

The basic data for the wells completed in Ohio during 1964 are those filed by the operators with the State of Ohio, Department of Industrial Relations, Division of Mines. These records have been augmented with information acquired from the Ohio Oil and Gas Association semi-monthly Scout Report, the biweekly Scout Check at the Ohio Oil and Gas Association, certain commercial scout reports and records, and requests for specific information from companies, individual operators, and consultants. To all of these sources of information the authors acknowledge their appreciation.



The authors of this report are grateful for the courtesies and assistance extended at the Division of Mines by J. Lester Zimmerman, Chief of the Division; J. C. Wilson, Assistant Chief; and Don May, Engineer. The authors are especially grateful to the clerical staff of the Division: Catherine Skinner, Frances Stevens, and Dorothy Green for making weekly records of activities available for reproduction by the Survey.

Within the Survey the authors are indebted to Warren L. Calvert, former Head of the Subsurface Geology Section and his clerical staff of Carole Jones, and for basic data concerning the activities during the first nine months of the year. This report involves the records of 2665 wells, and the authors gratefully acknowledge assistance of the clerical staff of the Subsurface and Economic Geology Section of the Survey: Barbara Adams, Dorothy Harding, Margalene Crammer, and Carole Jacobs in filing, and re-filing the many well records used in the tabulations and compilations presented in this report.

## DRILLING ACTIVITIES

### TOTAL DRILLING ACTIVITY

A tremendous increase in drilling activity marked the most significant development of 1964. An accelerated growth in drilling operations was fostered largely by extensive efforts of the industry to discover Cambrian production. The lack of well spacing regulations and proration of production and the rapid pay out contributed to the intense exploration activity. The latter stimulated the town lot drilling activity within Morrow County, which terminated with the advent of new spacing regulations in March, 1964. Even though the bulk of the drilling effort was concentrated on the search for Cambrian reservoirs, the exploration and development of the Silurian Albion sandstones ("Clinton") and the Mississippian Berea Sandstone continued at a steady rate.

A total of 2835 wells of all types were completed in Ohio during 1964. Total footage drilled was 8,408,026 feet. A tabulation of the 1964 drilling effort follows:

|                     | <u>Total<br/>Wells</u> | <u>Initial Gauge<br/>MCFGPD</u> | <u>BOPD</u> | <u>Total<br/>Footage</u> |
|---------------------|------------------------|---------------------------------|-------------|--------------------------|
| New Wells:          |                        |                                 |             |                          |
| Productive          | 1106                   | 362,889                         | 113,497     | 3,277,914                |
| Dry                 | 1559                   | --                              | --          | 4,850,305                |
| Drilled Deeper      | 9                      | 150                             | 7           | 8,399                    |
| Worked Over         | 6                      | --                              | 70          | --                       |
| Plugged Back        | 8                      | 575                             | 73          | --                       |
| Secondary Recovery: |                        |                                 |             |                          |
| Gas/Air Injection   | 2                      |                                 |             | 1,348                    |
| Waterflood          | 32                     |                                 |             | 23,562                   |
| Domestic            | 7                      | ?                               | --          | 5,052                    |
| Storage             | 77                     | --                              | --          | 216,552                  |
| Brine               | 2                      | --                              | --          | 5,125                    |
| Lost holes          | 27                     | --                              | --          | 19,769                   |
| Total               | 2835                   | 363,614                         | 113,647     | 8,408,026                |

Of the total wells a record high 2665 new oil and gas wells were drilled, or a gain of more than 100 percent over the 1963 total of 1155 wells (Table II). Production with initial potentials of 362,889 MCFGPD and 113,497 BOPD was obtained from 1106 wells, while 1559 wells were dry. New well footage drilled was 8,128,219 feet. Secondary recovery, storage, workovers, brine, and domestic purpose completions amounted to 143 wells and 260,038 feet of hole drilled. Average daily production from workovers and plug backs was 725 MCFGPD and 150 BOPD. Lost holes numbered 27 with a drilling footage of 19,769 feet.

Tabulation of the 1964 new well drilling by counties (Table I) shows the total effort was of widespread extent. New drilling attempts were made in 70 of Ohio's 88 counties. The ten leading counties in the number of new wells are:

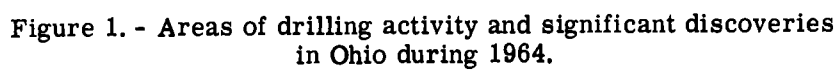
|            | <u>Productive</u> | <u>Dry</u> | <u>Total</u> |
|------------|-------------------|------------|--------------|
| Morrow     | 431               | 911        | 1342         |
| Delaware   | 17                | 153        | 170          |
| Portage    | 100               | 9          | 109          |
| Licking    | 74                | 15         | 89           |
| Ashland    | 43                | 36         | 79           |
| Coshocton  | 72                | 5          | 77           |
| Knox       | 44                | 32         | 76           |
| Washington | 44                | 17         | 61           |
| Perry      | 43                | 5          | 48           |
| Marion     | 1                 | 46         | 47           |

Emphasis centered on Morrow County with 1342 completions or 50% of the total activity.

### EXPLORATORY DRILLING ACTIVITY

Exploration tests (far wildcats) numbered 563 or 21.1 percent of the new holes completed during 1964. The footage drilled was 1,791,696 feet or 22.0 percent of the total new well footage. This is a substantial increase over the 1963 like figures of 207 holes and 685,678 feet. Seven percent of the 39 exploratory tests were successful with 15 gas wells, 23 oil wells, and 1 combination well. There were 524 dry holes. Success ratio is about 1 in 14 attempts or approximately one half the national wildcatting average of 1 in 7 attempts.

The principal area for wildcat completions was Central Ohio where important oil and gas finds were made particularly in Morrow and Delaware Counties (Figure 1). Successes in these and other counties are due primarily to the expansion of the exploration activity for Cambrian objectives. Penlan and Fulton South are Morrow County Cambrian discoveries south and east of previously known fields. Further expansion of the Cambrian effort is evidenced by the Delaware North field discovery of Delaware County, and the reported Cambrian gas discoveries in Ashland, Knox, and Richland Counties. The Harlem Northeast field in southeastern Delaware County and the Owens field in south-central Marion County are significant because Ordovician Trenton Limestone gas production was obtained in areas far removed from the older northwestern Ohio Trenton production. Important Silurian Clinton Sandstone gas discoveries were made in the Fredricktown field in northwestern Knox County and in the Hubbard field in southeastern Trumbull County. Scattered limited area gas pools were discovered within the Silurian "Newburg" zone in eastern Morrow County. One Devonian Oriskany Sandstone gas discovery was completed in Randolph Township, Portage County.



**Figure 1. - Areas of drilling activity and significant discoveries in Ohio during 1964.**

## DEVELOPMENT ACTIVITY

Development (pool) drilling continued at a steady pace during 1964 with a total of 2102 such wells drilled, representing 78.8 percent of all new wells. There were 187 gas wells, 694 oil wells, 186 combination wells and 1035 dry holes. Development drilling total footage was 6,336,523 feet of which 75 percent was for Cambrian production.

## ACTIVITY BY PRODUCING ZONE

The total 1964 new well drilling activity by producing zones, and by producing zones by county are presented in Tables III and IV respectively. As outlined previously the producing zones of principal interest were the Cambrian Copper Ridge ("Trempealeau") Dolomite, Silurian Albion sandstones ("Clinton") and the Mississippian Berea Sandstones.

Wells completed in the Cambrian totaled 1793 or 67.28 percent of the new wells. There were 10 gas wells, 423 oil wells, 11 combination wells and 1349 failures. Morrow County was the chief recipient of the effort. Silurian Albion ("Clinton") wells numbered 509 or 19.10 percent of the new wells. Of these 138 were gas wells, 153 oil wells, 153 combination wells, and 65 dry. The area which received the bulk of the "Clinton" drilling was Portage County. A total of 196 Berea wells were completed or 7.35 percent of the new wells. Of these 26 were gas wells, 88 oil wells, 22 combination wells and 60 failures. Washington County led the State in the number of Berea completions.

## OIL AND GAS PRODUCTION

During 1964 the crude oil production in Ohio amounted to 15,850,000 barrels with a dollar value of \$46,669,630. A tabulation showing production by grades of crude is as follows:

|              | <u>Barrels</u>    | <u>Dollars per<br/>Barrel</u> | <u>Dollar Value</u>  |
|--------------|-------------------|-------------------------------|----------------------|
| Buckeye Penn | 1,405,000         | \$3.61                        | \$ 5,072,050.00      |
| Zanesville   | 346,000           | 2.97                          | 1,027,620.00         |
| Corning      | 3,417,000         | 2.67                          | 9,123,390.00         |
| Lima         | 45,000            | 2.50                          | 112,500.00           |
| Chatham      | 161,000           | 2.67                          | 429,870.00           |
| Cambrian     | <u>10,476,000</u> | <u>2.95</u>                   | <u>30,904,200.00</u> |
| Total        | 15,850,000        |                               | \$46,669,630.00      |

Oil production increased 9,811,000 barrels over 1963, and far exceeded any previous yearly production (Table VI). New Cambrian production caused the increase in oil volume and the corresponding increase in oil reserves (Table V). Basic crude oil price quotations by grades are presented in Table VII.

## SUMMARY OF OIL AND GAS ACTIVITY IN 1964

Ohio's natural gas production for 1964 is as follows:

| <u>Millions of<br/>cubic feet</u> | <u>Average Price<br/>per MCF - cents</u> | <u>Dollar<br/>Value</u> |
|-----------------------------------|--|-------------------------|
| 37, 713                           | 23. 5                                    | \$8, 862, 550. 00       |

In contrast to the oil production natural gas production decreased 787, 000, 000 cubic feet from 1963, and dollar worth decreased \$184, 950. The annual gas production, consumption, and reserves for 1955-1964 are presented in Table VIII. Total oil and gas dollar value for 1964 is \$55, 532, 180.



# APPENDIX

## ABBREVIATIONS AND SYMBOLS

### A

Abd. - Abandoned  
Acid - Acid treatment  
Assoc. - Associates; Association  
Ave. - Avenue

### B

Bldg. - Building  
BOPD - Barrels oil per day  
BPH - Barrels per hour  
BPD - Barrels per day  
Bros. - Brothers  
BWPD - Barrels water per day

### C

€ - Cambrian undifferentiated  
€co - Cambrian Conasauga Shale  
€cr - Cambrian Copper Ridge ("Trempealeau")  
Dolomite  
€det - Cambrian Detrital beds  
Cen. - Central  
€ma - Cambrian Maynardville Formation  
€ms - Cambrian Mount Simon Sandstone  
Co. - Company  
Comp. - Completion; completed  
Constr. - Construction  
Contr. - Contracting; contractors  
Corp. - Corporation  
€r - Cambrian Rome Formation  
CT - Cable tools

### D

D - Devonian undifferentiated  
D & A - Dry & abandoned  
DD - Drilled deeper  
Devel. - Development  
Div. - Division  
Dig. - Drilling  
Doh - Devonian Ohio Shale  
Dor - Devonian Oriskany Sandstone  
DPWC - Deep pool wildcat  
Dr. - Drive

### E

E - East  
EL - East line  
Enter. - Enterprises  
Est; est - Estimated  
Explor. - Exploration

### F

Frac - Fracture treatment  
Ft.; ft. - Feet  
FWC - Far wildcat

### G

G. - Gas

### H

Hrs. - Heirs  
Hwy. - Highway

### I

Inc. - Incorporated  
Indep. - Independent  
Invest. - Investment

### J

Jr. - Junior

### L

L - Lot  
Loc.; loc. - Location

### M

M - Mississippian undifferentiated  
Mbe - Mississippian Berea Sandstone  
MCF - Thousand cubic feet of (natural) gas  
MCFGPD - Thousand cubic feet gas per day  
Metro. - Metropolitan  
Mhd - Mississippian Hamden Sandstone  
Min - Mississippian "Injun", "Big Injun"  
sandstone  
Mke - Mississippian "Keener" sandstone  
MMCF - Million cubic feet of (natural) gas  
Mng. - Mining  
Msq - Mississippian "Squaw" sandstone  
Mt. - Mount  
Mtg. - Meeting  
MWCD - Muskingum Watershed Conservancy  
District

### N

N - North  
Nat - Natural completion  
NE - Northeast  
NL - North line  
NW - Northwest  
NWC - Near wildcat

### O

O. - Oil  
O - Ordovician undifferentiated  
Obr - Ordovician Black River Formation  
Ocn - Ordovician Cincinnati, includes (Omay)  
"Maysville" beds  
Omay - Ordovician "Maysville" beds  
Oqu - Ordovician Queenston Formation  
Ot - Ordovician Trenton Limestone

Out - Outpost or Extension  
OW - Old well  
OW Abd. - Old well abandoned  
OWDD - Old well drilled deeper  
OWWO - Old well worked over

### P

P - Permit; Pennsylvanian undifferentiated  
PB - Plugged back  
Pbr - Pennsylvanian "Buell Run" sandstone  
PC - Precambrian  
Pcr - Pennsylvanian Cow Run Sandstone  
Pgt - Pennsylvanian "Germantown" sandstone  
Pmb - Pennsylvanian "Macksburg" sandstone  
Pmx - Pennsylvanian "Maxton" sandstone  
Ppk - Pennsylvanian "Peeker" sandstone  
Prod. - Production; Producing  
Prop.; prop. - Property  
Pss - Pennsylvanian "Salt Sand"

### Q

Q - Quarter

### R

R. - Refining  
Rd. - Road  
R. R. - Railroad  
RT - Rotary tools

### S

S - Section; South; Silurian undifferentiated  
Sal - Silurian Albion Group, includes "Clinton"  
and "Medina" sandstones  
SE - Southeast  
SL - South line  
Shb - Silurian "Newburg" beds  
Soc. - Society  
SPWC - Shallow pool wildcat  
Sr. - Senior  
St. - Street  
SW - Southwest  
SWDW - Salt water disposal well

### T

TD - Total Depth  
Twp. - Township (civil)

### V

VMSL - Virginia Military Survey Lot

### W

W - West  
WL - West line  
WO - Worked over  
Wtr.; wtr. - Water (salt water)



## LIST OF OPERATIONS DURING 1964

8

| Permit Number       | Township    | Land Division | Location               |       | Operator                              | Well No.      | Lease            | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |     | Total Depth | Class. | Tools | Remarks       |  |
|---------------------|-------------|---------------|------------------------|-------|---------------------------------------|---------------|------------------|------------|--------------|------------|---------------|-----|-------------|--------|-------|---------------|--|
| ADAMS COUNTY        |             |               |                        |       |                                       |               |                  |            |              |            |               |     |             |        |       |               |  |
| 3                   | Jefferson   | VMSL 2663     | 26500 NL 18700 EL Twp. |       | Cabot Corp. & McMahon-Bullington Dlg. | 1             | Arthur Bailey    | 11-10      | Obr          | --         | --            | --  | 1720        | FWC    | RT    | Lost hole     |  |
| 4                   | Jefferson   | VMSL 2662     | 26504 NL 18712 EL Twp. |       | Cabot Corp. & McMahon-Bullington Dlg. | 1-A           | Arthur Bailey    | 11-23      | PC           | --         | --            | --  | 3790        | FWC    | RT    |               |  |
|                     |             | SUMMARY       | GAS-0                  | OIL-0 | COMBINATION-0                         | DRY-2 TOTAL-2 |                  |            |              |            | 0             | 0   | 5,510       | FEET   |       |               |  |
| ALLEN COUNTY        |             |               |                        |       |                                       |               |                  |            |              |            |               |     |             |        |       |               |  |
| 57                  | Auglaize    | S 29          | 230 SL 260 EL          | SW    | Frank Dever                           | 1             | K. & P. Burden   | 7-30       | €            | --         | --            | --  | 2024        | FWC    | CT    | OW Abd.       |  |
| 58                  | Perry       | S 20          | 230 SL 1090 EL         | SE    | Teepee Oil Co.                        | 1             | C. H. Martin     | 9-10?      | €            | --         | --            | --  | 2001        | FWC    | RT    |               |  |
| 59                  | Richland    | S 25          | 430 NL 890 EL          | NW    | Frank Dever                           | 1             | M. & M. Cribblez | 8-25       | €            | --         | --            | --  | 1996        | FWC    | CT    |               |  |
| 60                  | Spencer     | S 22          | 330 NL 970 EL          | NE    | H. & H. Producing Co.                 | 1             | F. Pohlman       | 11-30      | € det        | --         | --            | --  | 3206        | FWC    | CT    |               |  |
| 61                  | Spencer     | S 2           | 360 SL 550 EL          | SE    | Matthew Roeder                        | 2             | M. Roeder        |            |              |            |               |     |             |        |       |               |  |
|                     |             | SUMMARY       | GAS-0                  | OIL-0 | COMBINATION-0                         | DRY-4 TOTAL-4 |                  |            |              |            | 0             | 0   | 9,227       | FEET   |       |               |  |
| OLD WELLS ABANDONED |             |               |                        |       |                                       |               |                  |            |              |            |               |     |             |        |       |               |  |
| 56-5                | Spencer     | S 3           | 660 SL 660 EL          | SW    | Matthew Roeder                        | 5             | T. E. Rupert     | 1898?      | Ot           | ?          | --            | ?   | 1215        | Pool   | CT    | Abd. 1-3      |  |
| 61                  | Spencer     | S 2           | 360 SL 550 EL          | SE    | Matthew Roeder                        | 2             | M. Roeder        | ?          | Ot           | ?          | --            | ?   | ?           | Pool   | CT    | Abd. 10-?     |  |
|                     |             | SUMMARY       | ABANDONED-2            |       |                                       |               |                  |            |              |            |               |     |             |        |       |               |  |
| ASHLAND COUNTY      |             |               |                        |       |                                       |               |                  |            |              |            |               |     |             |        |       |               |  |
| 2180                | Jackson     | S 33          | 1100 NL 960 EL         | SE    | C. N. Spring                          | 1             | Himmel Spring    |            |              |            |               |     |             | Pool   | CT    | Canceled      |  |
| 2182                | Jackson     | S 15          | 2350 SL 1500 EL        | SE    | M. R. Woodward                        | 19            | Floyd Kaylor     |            |              |            |               |     |             | Pool   | CT    |               |  |
| 2187                | Lake        | S 4           | 1920 SL 300 EL         | SE    | Raymond Shafer                        | 1-A           | H. & C. Swain    | 2-?        | Mbe          | Shot       | --            | 3   | 653         | Pool   | CT    |               |  |
| 2191                | Lake        | S 4           | 650 NL 500 EL          | SE    | Raymond Shafer                        | 2-A           | H. & C. Swain    | 1-24       | Mbe          | Shot       | --            | 2   | 666         | Pool   | CT    | Gas injection |  |
| 2193                | Mohican     | S 9           | 1900 SL 2220 WL        | SW    | Hamm, Bacon, & Duty                   | 4             | R. G. Noggle     | 4-15       | Mbe          | --         | --            | --  | 627         | Pool   | RT    |               |  |
| 2200                | Jackson     | S 34          | 750 NL 1080 EL         | NW    | Waltz Bros.                           | 1             | M. F. Ramage     | 1963       | Mbe          | Shot       | --            | 1   | 632         | Pool   | RT    |               |  |
| 2201                | Jackson     | S 34          | 30 SL 1475 EL          | NE    | James H. Kiste, Jr.                   | 1-A           | S. & E. Ward     | 1963       | Mbe          | Shot       | --            | 5   | 770         | Pool   | CT    | Discovery     |  |
| 2205                | Perry       | S 19          | 1670 SL 430 EL         | SE    | Donelson Dlg. Co.                     | 11            | R. & L. Balsizer | 1963       | Mbe          | Shot       | --            | 5   | 696         | Pool   | CT    |               |  |
| 2206                | Jackson     | S 33          | 1178 SL 382 EL         | NE    | Glenn Hottel                          | 13            | M. F. Ramage     |            |              |            |               |     |             | Pool   | CT    |               |  |
| 2209                | Perry       | S 3           | 70 NL 1420 EL          | NE    | Waltz Bros.                           | 53            | G. H. Smith      | 1-17       | Mbe          | Shot       | --            | 5   | 620         | Pool   | RT    |               |  |
| 2210                | Perry       | S 3           | 280 NL 1420 EL         | NE    | Waltz Bros.                           | 54            | G. H. Smith      | 1963       | Mbe          | Shot       | --            | 5   | 601         | Pool   | RT    | Discovery     |  |
| 2214                | Clear Creek | S 3           | 300 SL 300 WL          | SE    | B. A. Floto & Assoc.                  | 1             | R. E. Troxel     | 1-15       | €cr          | Acid       | 2000          | 140 | 4262        | FWC    | RT    |               |  |
| 2215                | Perry       | S 4           | 350 SL 150 EL          | SW    | James H. Kiste, Jr.                   | 19            | Jack Bailey      | 1-8        | Mbe          | --         | --            | --  | 810         | Pool   | CT    |               |  |
| 2216                | Perry       | S 3           | 1110 SL 114 WL         | SE    | M & G Oil Co.                         | 8             | R. Schneider     | 1-11       | Mbe          | --         | --            | --  | 662         | Pool   | RT    |               |  |
| 2217                | Mohican     | S 23          | 528 SL 95 WL           | NW    | H & F Oil Co.                         | 3             | R. W. Stewart    | 1-21       | Mbe          | Shot       | --            | 10  | 600         | Pool   | RT    |               |  |
| 2218                | Perry       | S 3           | 910 NL 1450 EL         | NE    | Waltz Bros.                           | 57            | G. H. Smith      | 1-3        | Mbe          | Shot       | --            | 5   | 650         | Pool   | RT    | Discovery     |  |
| 2219                | Perry       | S 3           | 610 NL 720 WL          | SE    | G. M. S. Oil Co.                      | 69            | T. W. Miller     | 1-22       | Mbe          | Shot       | --            | 8   | 716         | Pool   | RT    |               |  |
| 2220                | Perry       | S 3           | 610 NL 520 WL          | SE    | G. M. S. Oil Co.                      | 70            | T. W. Miller     | 1-31       | Mbe          | Shot       | --            | 5   | 701         | Pool   | RT    |               |  |
| 2221                | Perry       | S 3           | 1120 NL 1420 EL        | NE    | Waltz Bros.                           | 58            | G. H. Smith      | 1-22       | Mbe          | Shot       | --            | 5   | 648         | Pool   | RT    |               |  |
| 2222                | Perry       | S 4           | 100 SL 350 EL          | SW    | James H. Kiste, Jr.                   | 20            | Jack Bailey      | 2-28       | Mbe          | Shot       | --            | 60  | 830         | Pool   | CT    |               |  |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township    | Land Division | Location        | Operator | Well No.              | Lease | Date Comp.         | Deepest Unit | Type Comp. | Initial Prod. MCFGPD | BOPD | Total Depth | Class. | Tools | Remarks            |
|-----------------------|-------------|---------------|-----------------|----------|-----------------------|-------|--------------------|--------------|------------|----------------------|------|-------------|--------|-------|--------------------|
| ASHLAND COUNTY (con.) |             |               |                 |          |                       |       |                    |              |            |                      |      |             |        |       |                    |
| 2223                  | Perry       | S 3           | 1020 NL 1140 EL | NE       | Waltz Bros.           | 59    | G. H. Smith        |              |            |                      |      |             | Pool   | RT    | Gas injection      |
| 2224                  | Perry       | S 3           | 425 NL 320 WL   | SE       | G. M. S. Oil Co.      | 71    | T. W. Miller       | 2-10         | Mbe        | Shot                 | --   | 5           | 701    | Pool  | RT                 |
| 2225                  | Perry       | S 3           | 610 NL 120 WL   | SE       | G. M. S. Oil Co.      | 72    | T. W. Miller       | 2-15         | Mbe        | Shot                 | --   | 3           | 702    | Pool  | RT                 |
| 2226                  | Perry       | S 3           | 425 NL 220 WL   | SE       | G. M. S. Oil Co.      | 73    | T. W. Miller       | 2-22         | Mbe        | Shot                 | --   | 5           | 702    | Pool  | RT                 |
| 2227                  | Perry       | S 3           | 1000 NL 1310 EL | NE       | Waltz Bros.           | 60    | G. H. Smith        | 2-7          | Mbe        | Shot                 | --   | 5           | 633    | Pool  | RT                 |
| 2228                  | Mohican     | S 22          | 638 SL 242 EL   | NE       | Schrock & Mueller     | 10    | H. B. Austin       |              |            |                      |      |             | Pool   | CT    | Replaced by P-2271 |
| 2229                  | Mohican     | S 22          | 518 SL 86 EL    | NE       | Schrock & Mueller     | 11    | H. B. Austin       |              |            |                      |      |             | Pool   | CT    | Replaced by P-2272 |
| 2230                  | Perry       | S 18          | 1200 NL 400 EL  | SE       | B. L. Jelley          | 1     | Ivan Stone         | 6-16         | Mbe        | --                   | --   | --          | 725    | Pool  | CT                 |
| 2231                  | Perry       | S 3           | 1200 SL 86 EL   | SW       | M & G Oil Co.         | 35    | E. Smalley         |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2232                  | Perry       | S 3           | 1193 SL 286 EL  | SW       | M & G Oil Co.         | 36    | E. Smalley         |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2233                  | Perry       | S 3           | 1171 SL 486 EL  | SW       | M & G Oil Co.         | 37    | E. Smalley         |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2234                  | Mohican     | S 22          | 407 SL 264 EL   | NE       | Schrock & Mueller     | 12    | H. B. Austin       |              |            |                      |      |             | Pool   | CT    | Replaced by P-2273 |
| 2235                  | Mohican     | S 22          | 299 SL 86 EL    | NE       | Schrock & Mueller     | 13    | H. B. Austin       |              |            |                      |      |             | Pool   | RT    | Replaced by P-2274 |
| 2236                  | Perry       | S 9           | 355 SL 1076 WL  | SW       | J. W. Shorts          | 2     | H. & M. Cobbler    |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 2237                  | Perry       | S 3           | 440 NL 350 WL   | SE       | G. M. S. Oil Co.      | 74    | T. W. Miller       | 3-20         | Mbe        | Shot                 | --   | 10          | 702    | Pool  | RT                 |
| 2238                  | Ruggles     | L 1 (4Q)      | 400 SL 40 WL    |          | Glenn Peabody         | 1     | Glenn Peabody      |              |            |                      |      |             | FWC    | RT    | Canceled           |
| 2239                  | Clear Creek | S 2           | 850 NL 550 WL   | SE       | Bridgeport Dig. Co.   | 1     | M. M. Mick         |              |            |                      |      |             | Out    | RT    | Canceled           |
| 2240                  | Clear Creek | S 11          | 1960 NL 2670 WL | NE       | Bridgeport Dig. Co.   | 1     | T. & V. Ringler    |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2241                  | Clear Creek | S 11          | 350 NL 1100 WL  | SE       | Bridgeport Dig. Co.   | 1     | H. & O. McWilliams |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2242                  | Clear Creek | S 14          | 760 SL 250 EL   | NW       | Bridgeport Dig. Co.   | 1     | R. Godwin          |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2243                  | Clear Creek | S 11          | 620 NL 840 WL   | SE       | Bridgeport Dig. Co.   | 1     | O. & H. McWilliams |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2244                  | Clear Creek | S 11          | 370 SL 2665 WL  | NE       | Bridgeport Dig. Co.   | 1     | H. & R. Coran      |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2245                  | Clear Creek | S 14          | 200 SL 543 EL   | SE       | M. S. Ringler         | 1     | Shriver & Sanders  |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2246                  | Clear Creek | S 11          | 2530 SL 2340 EL | NE       | Bridgeport Dig. Co.   | 1     | J. & L. Beugly     |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2247                  | Clear Creek | S 2           | 3700 SL 2425 EL | NW       | Bridgeport Dig. Co.   | 1     | L. & T. Campbell   |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2248                  | Clear Creek | S 2           | 1800 SL 1560 EL | SE       | Bridgeport Dig. Co.   | 1     | E. & M. Wise       |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2249                  | Clear Creek | S 11          | 1160 SL 2230 WL | SW       | Bridgeport Dig. Co.   | 1     | D. E. Swinehart    |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2250                  | Clear Creek | S 11          | 1440 SL 690 WL  | SE       | Bridgeport Dig. Co.   | 1     | H. McWilliams      |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2251                  | Clear Creek | S 11          | 2500 SL 300 EL  | NW       | Bridgeport Dig. Co.   | 1     | W. Anderson        |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2252                  | Clear Creek | S 11          | 775 SL 1699 WL  | NE       | Bridgeport Dig. Co.   | 1     | L. F. Brant        |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2253                  | Clear Creek | S 11          | 500 NL 1330 WL  | SE       | Bridgeport Dig. Co.   | 1     | Mabel Pratt        |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2254                  | Clear Creek | S 11          | 2350 SL 2025 EL | NW       | Bridgeport Dig. Co.   | 1     | J. Godwin          |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 2255                  | Clear Creek | S 14          | 1650 NL 2450 WL | SE       | Bridgeport Dig. Co.   | 1     | J. & G. Benton     |              |            |                      |      |             | NWC    | RT    | Canceled           |
| 2256                  | Clear Creek | S 11          | 220 SL 1590 WL  | NE       | John Gibson           | 1     | John Gibson        |              |            |                      |      |             | Out    | RT    | Canceled           |
| 2257                  | Clear Creek | S 10          | 330 NL 330 EL   | NW       | Huron Exploration Co. | 1     | R. & D. Luteman    |              |            |                      |      |             | Pool   | RT    | Replaced by P-2259 |
| 2258                  | Perry       | S 3           | 780 NL 840 EL   | NE       | Waltz Bros.           | 61    | G. H. Smith        | 5-1          | Mbe        | --                   | --   | --          | 654    | Pool  | RT                 |
| 2259                  | Clear Creek | S 10          | 330 NL 330 EL   | NW       | Huron Exploration Co. | 1     | R. & D. Luteman    | 4-16         | Ccr        | --                   | --   | --          | 4535   | Pool  | RT                 |
| 2260                  | Orange      | S 32          | 793 NL 211 EL   | SE       | Perry Fulk, Sr.       | 1-A   | M. & C. Bates      | 4-27         | Ccr        | Frac                 | 1500 | --          | 4535   | DPWC  | RT                 |
| 2261                  | Clear Creek | S 2           | 1650 NL 330 WL  | SW       | Bill Vaught           | 1     | H. & K. Deibert    | 5-16         | Ccr        | --                   | --   | --          | 4405   | Pool  | RT                 |
| 2262                  | Perry       | S 3           | 880 NL 1650 EL  | NE       | M & G Oil Co.         | 10    | C. Austin          | 4-30         | Mbe        | Shot                 | --   | 5           | 642    | Pool  | RT                 |
| 2263                  | Perry       | S 3           | 1080 NL 1650 EL | NE       | M & G Oil Co.         | 11    | C. Austin          | 5-13         | Mbe        | Shot                 | --   | 5           | 662    | Pool  | RT                 |
| 2264                  | Orange      | S 32          | 660 SL 660 WL   | NE       | Perry Fulk, Sr.       | 1     | W. & H. Rohn       | 5-18         | Sal        | --                   | --   | --          | 2550   | FWC   | RT                 |
| 2265-19               | Jackson     | S 28          | 513 SL 1125 WL  | SE       | Waltz Bros.           | 19    | Marie Kline        | 5-25         | Mbe        | Shot                 | --   | 5           | 732    | Pool  | RT                 |
| 2265-20               | Jackson     | S 28          | 513 SL 1725 WL  | SE       | Waltz Bros.           | 20    | Marie Kline        | 5-29         | Mbe        | Shot                 | --   | 5           | 714    | Pool  | RT                 |
| 2266                  | Orange      | S 32          | 660 NL 660 EL   | NE       | Perry Fulk, Sr.       | 1     | J. T. Swinehart    |              |            |                      |      |             | FWC    | RT    | Canceled           |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964

## LIST OF OPERATIONS DURING 1964

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SUMMARY OF OIL AND GAS ACTIVITY IN 1964

| Permit<br>Number      | Township    | Land<br>Division | Location        | Operator | Well<br>No.          | Lease | Date<br>Comp.           | Deepest<br>Unit | Type<br>Comp. | Initial Prod. |      | Total<br>Depth | Class. | Tools | Remarks                      |
|-----------------------|-------------|------------------|-----------------|----------|----------------------|-------|-------------------------|-----------------|---------------|---------------|------|----------------|--------|-------|------------------------------|
|                       |             |                  |                 |          |                      |       |                         |                 |               | MCFGPD        | BOPD |                |        |       |                              |
| ASHLAND COUNTY (con.) |             |                  |                 |          |                      |       |                         |                 |               |               |      |                |        |       |                              |
| 2267                  | Perry       | S 3              | 1157 SL 600 EL  | SE       | M & G Oil Co.        | 9     | R. Schneider            | 6-4             | Mbe           | --            | --   | 682            | Pool   | RT    | Replaces P-2228              |
| 2268                  | Perry       | S 3              | 720 SL 245 EL   | SE       | M & G Oil Co.        | 10    | R. Schneider            | 6-4             | Mbe           | --            | --   | 652            | Pool   | RT    |                              |
| 2269                  | Jackson     | S 34             | 65 SL 489 EL    | SE       | Waltz Bros.          | 16    | Loya Warnes             | 6-9             | Mbe           | Shot          | --   | 5              | Pool   | RT    |                              |
| 2270                  | Perry       | S 2              | 50 SL 1749 WL   | SW       | G. M. S. Oil Co.     | 2     | J. & M. Kline           | 6-24            | Mbe           | --            | --   | 702            | Pool   | RT    |                              |
| 2271                  | Mohican     | S 22             | 638 SL 242 EL   | NE       | Schrock & Mueller    | B-10  | H. B. Austin            | 7-20            | Mbe           | --            | --   | 584            | Pool   | RT    |                              |
| 2272                  | Mohican     | S 22             | 518 SL 86 EL    | NE       | Schrock & Mueller    | B-11  | H. B. Austin            | 11-?            | Mbe           | Shot          | --   | 4              | Pool   | CT    | Replaces P-2229              |
| 2273                  | Mohican     | S 22             | 407 SL 264 EL   | NE       | Schrock & Mueller    | B-12  | H. B. Austin            |                 |               |               |      |                | Pool   | CT    | Replaces P-2234.<br>Canceled |
| 2274                  | Mohican     | S 22             | 299 SL 88 EL    | NE       | Schrock & Mueller    | B-13  | H. B. Austin            |                 |               |               |      |                | Pool   | CT    | Replaces P-2235.<br>Canceled |
| 2275                  | Clear Creek | S 12             | 330 SL 330 EL   | SW       | Glynn Trolz & Assoc. | 1     | W. H. Ramsey            | 7-15            | €cr           | --            | --   | 4589           | NWC    | RT    | OW Abd.<br>OW Abd.           |
| 2276                  | Jackson     | S 34             | 50 SL 689 EL    | SE       | Waltz Bros.          | 17    | Loya Warnes             | 6-27            | Mbe           | Shot          | --   | 5              | Pool   | RT    |                              |
| 2277                  | Jackson     | S 34             | 257 SL 500 EL   | SE       | Waltz Bros.          | 18    | Loya Warnes             | 7-8             | Mbe           | Shot          | --   | 5              | Pool   | RT    |                              |
| 2278                  | Jackson     | S 34             | 250 SL 700 EL   | SE       | Waltz Bros.          | 19    | Loya Warnes             | 7-2             | Mbe           | Shot          | --   | 5              | Pool   | RT    |                              |
| 2279                  | Perry       | S 2              | 178 SL 1195 WL  | SW       | G. M. S. Oil Co.     | 3     | J. & M. Kline           | 7-3             | Mbe           | --            | --   | 681            | Out    | RT    |                              |
| 2280                  | Mohican     | S 8              | 280 SL 530 WL   | SW       | Ohio Fuel Gas Co.    | 1     | Cooper & Charles Heirs  |                 |               |               |      |                | Pool   | CT    | OW Abd.<br>OW Abd.           |
| 2281                  | Mohican     | S 8              | 550 SL 1800 WL  | SW       | Ohio Fuel Gas Co.    | 1     | M. Hunn (G. Smith)      |                 |               |               |      |                | Pool   | CT    |                              |
| 2282                  | Mohican     | S 18             | 1550 NL 2100 WL | NW       | Ohio Fuel Gas Co.    | 1     | P. Shafer (H. Donelson) |                 |               |               |      |                | Pool   | CT    | OW Abd.                      |
| 2283                  | Perry       | S 11             | 100 NL 725 WL   | SW       | M & G Oil Co.        | 2     | K. & M. Cehrs           | 7-10            | Mbe           | --            | --   | 693            | Pool   | RT    |                              |
| 2284                  | Perry       | S 2              | 700 SL 693 WL   | SW       | G. M. S. Oil Co.     | 4     | J. & M. Kline           | 7-23            | Mbe           | --            | --   | 662            | Out    | RT    | Domestic gas                 |
| 2285                  | Perry       | S 11             | 300 NL 150 WL   | SW       | M & G Oil Co.        | 3     | K. & M. Cehrs           | 7-16            | Mbe           | --            | --   | 662            | Pool   | RT    |                              |
| 2286                  | Jackson     | S 34             | 250 SL 840 EL   | NE       | James H. Kiste, Jr.  | 2-A   | Sam Ward                | 8-14            | Mbe           | ?             | --   | --             | Pool   | CT    |                              |
| 2287                  | Perry       | S 3              | 680 NL 1340 EL  | SE       | G. M. S. Oil Co.     | 75    | T. W. Miller            | 8-20            | Mbe           | Shot          | --   | 5              | Pool   | CT    |                              |
| 2288                  | Perry       | S 3              | 500 NL 1245 WL  | SE       | G. M. S. Oil Co.     | 76    | T. W. Miller            | 11-19           | Mbe           | Shot          | --   | 5              | Pool   | CT    |                              |
| 2289                  | Orange      | S 20             | 750 NL 550 WL   | NW       | B. A. Floto & Assoc. | 1     | C. D. Shopbell          | 9-13            | €cr           | --            | --   | 4647           | FWC    | RT    | Canceled                     |
| 2290                  | Clear Creek | S 4              | 330 SL 825 WL   | SE       | B. A. Floto & Assoc. | 1     | E. W. Gregg             | 8-18            | €cr           | --            | --   | 4434           | Pool   | RT    |                              |
| 2291-20               | Jackson     | S 34             | 467 SL 500 EL   | SE       | Waltz Bros.          | 20    | Loya Warnes             | 8-3             | Mbe           | --            | --   | 686            | Pool   | RT    |                              |
| 2291-21               | Jackson     | S 34             | 460 SL 700 EL   | SE       | Waltz Bros.          | 21    | Loya Warnes             |                 |               |               |      |                | Pool   | RT    |                              |
| 2292                  | Ruggles     | L 26 (4Q)        | 708 SL 1520 EL  |          | Null & Covey Assoc.  | 1     | Helen Ringler           | 8-22            | €cr           | --            | --   | 4253           | FWC    | RT    |                              |
| 2293                  | Jackson     | S 34             | 56 SL 289 EL    | SE       | Waltz Bros.          | 22    | Loya Warnes             | 8-15            | Mbe           | --            | --   | 663            | Pool   | RT    | Active                       |
| 2294                  | Perry       | S 3              | 855 NL 1030 WL  | SE       | G. M. S. Oil Co.     | 77    | T. W. Miller            | 8-22            | Mbe           | Shot          | --   | 3              | Pool   | RT    |                              |
| 2295                  | Perry       | S 3              | 1030 NL 930 WL  | SE       | G. M. S. Oil Co.     | 78    | T. W. Miller            | 9-18            | Mbe           | Shot          | --   | 5              | Pool   | RT    |                              |
| 2296                  | Perry       | S 3              | 855 NL 830 WL   | SE       | G. M. S. Oil Co.     | 79    | T. W. Miller            | 9-8             | Mbe           | Shot          | --   | 5              | Pool   | RT    |                              |
| 2297                  | Clear Creek | S 2              | 100 SL 640 WL   | SE       | B. A. Floto & Assoc. | 1     | W. & E. Moyers          |                 |               |               |      |                | Out    | RT    |                              |
| 2298                  | Jackson     | S 27             | 860 NL 730 WL   | SW       | Dale Linnabary       | 16    | Minnie McFadden         | 10-19           | Mbe           | --            | --   | 646            | Pool   | CT    | Active                       |
| 2299                  | Jackson     | S 27             | 1020 NL 695 WL  | SW       | Dale Linnabary       | 17    | Minnie McFadden         |                 |               |               |      |                | Pool   | CT    |                              |
| 2300                  | Troy        | L 16             | 7320 NL 5800 WL | Twp.     | Brinkerhoff Dlg. Co. | 1     | L. & R. Roberts         | 8-29            | €cr           | --            | --   | 4604           | FWC    | RT    | Active                       |
| 2301                  | Perry       | S 28             | 230 NL 230 WL   | NE       | Carr Oil Co.         | 1     | C. W. Heichel           |                 |               |               |      |                | FWC    | RT    |                              |
| 2302                  | Jackson     | S 34             | 1060 SL 310 EL  | NW       | Waltz Bros.          | 2     | M. & W. Ramage          | 9-9             | Mbe           | --            | --   | 632            | Pool   | RT    |                              |
| 2303                  | Jackson     | S 34             | 960 SL 100 EL   | SE       | Waltz Bros.          | 23    | Loya Warnes             | 9-12            | Mbe           | --            | --   | 645            | Pool   | RT    |                              |
| 2304                  | Jackson     | S 34             | 900 NL 1325 WL  | SE       | Waltz Bros.          | 24    | Loya Warnes             | 9-12            | Mbe           | --            | --   | 645            | Pool   | RT    |                              |
| 2305                  | Perry       | S 3              | 150 NL 890 EL   | NE       | Waltz Bros.          | 62    | G. W. Smith             | 9-22            | Mbe           | Shot          | --   | 5              | Pool   | RT    |                              |

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township    | Land Division | Location        | Operator | Well No.                    | Lease | Date Comp.            | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools  | Remarks |            |
|-----------------------|-------------|---------------|-----------------|----------|-----------------------------|-------|-----------------------|--------------|------------|---------------|------|-------------|--------|--------|---------|------------|
|                       |             |               |                 |          |                             |       |                       |              |            | MCFGPD        | BOPD |             |        |        |         |            |
| ASHLAND COUNTY (con.) |             |               |                 |          |                             |       |                       |              |            |               |      |             |        |        |         |            |
| 2306                  | Perry       | S 3           | 1700 SL 2070 EL | SE       | G. M. S. Oil Co.            | 80    | T. W. Miller          |              |            |               |      |             | Pool   | RT     | Active  |            |
| 2307                  | Lake        | S 21          | 1455 SL 100 EL  | SW       | Major O & G Co.             | 9     | Richard Teeters       | 12-4         | Mbe        | Shot          | --   | 6           | 781    | Pool   | CT      | Gas 30 MCF |
| 2308                  | Lake        | S 21          | 925 SL 105 EL   | SW       | Major O & G Co.             | 10    | Richard Teeters       | 11-9         | Mbe        | Shot          | --   | 4           | 758    | Pool   | CT      |            |
| 2309                  | Ruggles     | (4Q)          | 11400 SL 990 WL | Twp.     | Keillor & Clark             | 1     | Crall Enterprises     | 10-31        | €cr        | --            | --   | --          | 4334   | FWC    | RT      |            |
| 2310                  | Perry       | S 8           | 588 NL 795 EL   | SE       | Waltz Bros.                 | 1-WB  | T. L. Brandt Hrs.     | 10-7         | Mbe        | Shot          | --   | 3           | 831    | Pool   | RT      |            |
| 2311                  | Perry       | S 8           | 368 NL 390 EL   | SE       | Waltz Bros.                 | 2-WB  | T. L. Brandt Hrs.     | 10-10        | Mbe        | --            | --   | --          | 795    | Pool   | RT      |            |
| 2312                  | Clear Creek | S 4           | 385 SL 770 WL   | SE       | Huron Exploration Co.       | 1     | E. W. Gregg           |              |            |               |      |             | FWC    | CT     | Active  |            |
| 2313                  | Perry       | S 19          | 1069 NL 598 EL  | SE       | L. Donaldson & F. Notestein | 12    | R. & L. Balsizer      | 11-30        | Mbe        | --            | --   | --          | 697    | Pool   |         | CT         |
| 2314                  | Perry       | S 8           | 1060 SL 1290 WL | SE       | Waltz Bros.                 | 3-WB  | T. L. Brandt Hrs.     |              |            |               |      |             | Pool   | RT     | Active  |            |
| 2315                  | Troy        | L 4           | 867 NL 1254 EL  |          | Black Fork O. & Mng. Co.    | 1     | D. & A. Slack         | 12-22        | Sal        | --            | --   | --          | 2600   | Pool   |         | CT         |
| 2316                  | Mohican     | S 15          | 378 SL 332 EL   | SW       | Waltz Bros.                 | 3     | E. J. Hopkins         | 11-6         | Mbe        | --            | --   | --          | 653    | Pool   | RT      |            |
| 2317                  | Lake        | S 21          | 1455 SL 300 EL  | SW       | Major O & G Co.             | 11    | Richard Teeters       | 12-11        | Mbe        | Shot          | --   | 3           | 755    | Pool   | CT      | Gas 30 MCF |
| 2318                  | Lake        | S 21          | 1175 SL 308 EL  | SW       | Major O & G Co.             | 12    | Richard Teeters       | 11-24        | Mbe        | Shot          | --   | --          | 740    | Pool   | CT      |            |
| 2319                  | Lake        | S 21          | 925 SL 305 EL   | SW       | Major O & G Co.             | 13    | Richard Teeters       | 12-4         | Mbe        | Shot          | --   | 8           | 791    | Pool   | CT      |            |
| 2320                  | Lake        | S 21          | 1705 SL 20 EL   | SW       | Major O & G Co.             | 14    | Richard Teeters       | 11-2         | Mbe        | Shot          | --   | 4           | 845    | Pool   | CT      |            |
| 2321                  | Lake        | S 21          | 675 SL 20 EL    | SW       | Major O & G Co.             | 16    | Richard Teeters       | 12-29        | Mbe        | --            | --   | --          | 734    | Pool   | CT      |            |
| 2322                  | Lake        | S 21          | 675 SL 220 EL   | SW       | Major O & G Co.             | 17    | Richard Teeters       | 12-21        | Mbe        | Shot          | --   | 4           | 796    | Pool   | CT      |            |
| 2323                  | Lake        | S 21          | 1705 SL 220 EL  | SW       | Major O & G Co.             | 18    | Richard Teeters       | 12-11        | Mbe        | --            | --   | --          | 837    | Pool   | RT      |            |
| 2324                  | Lake        | S 21          | 1705 SL 420 EL  | SW       | Major O & G Co.             | 19    | Richard Teeters       |              |            |               |      |             | Pool   | RT     | Active  |            |
| 2325                  | Lake        | S 21          | 1175 SL 20 EL   | SW       | Major O & G Co.             | 15    | Richard Teeters       | 11-25        | Mbe        | Shot          | --   | 4           | 745    | Pool   |         | RT         |
| 2326                  | Perry       | S 29          |                 |          | Carter M. Hanna             | 2     | Lindecamp (Fletcher)  |              |            |               |      |             | Pool   | CT     | OW Abd. |            |
| 2327                  | Vermilion   | S 9           | 390 SL 500 WL   | SW       | Ohio Fuel Gas (Logan)       | 2     | P. Dennis (G. Long)   |              |            |               |      |             | Pool   | CT     |         |            |
|                       |             | SUMMARY       | GAS-1*          | OIL-41   | COMBINATION-1               |       | DRY-36                | TOTAL-79*    |            |               |      | 3,500       | 395    | 95,395 | FEET    |            |
| OLD WELLS ABANDONED   |             |               |                 |          |                             |       |                       |              |            |               |      |             |        |        |         |            |
| 216                   | Mohican     | S 11          | 1500 SL 1900 WL | SW       | Ohio Fuel Gas Co.           | 1     | E. C. Faber           | 1943         | Sal        | Nat?          | 17   | --          | 3027   | Pool   | CT      | Abd. 2-3   |
| 235                   | Mohican     | S 23          | 330 SL 530 WL   | NE       | Ohio Fuel Gas Co.           | 1     | M. W. C. D.           | 1944         | Sal        | Nat?          | 19   | --          | 2902   | Pool   | CT      | Abd. 2-14  |
| 1074                  | Lake        | S 16          | 1295 SL 2004 EL | NW       | Dale Linnabary              | 1     | K. Kopp               | 1954         | Mbe        | Shot          | 10   | 5           | 845    | Pool   | CT      | Abd. 5-14  |
| 1129                  | Mohican     | S 4           | 80 NL 500 EL    | SE       | Harold Smith (Paulus)       | 3     | H. L. Gray            | 1955         | Mbe        | Shot          | --   | 13          | 613    | Pool   | CT      | Abd. 11-12 |
| 1142                  | Lake        | S 21          | 1340 SL 693 WL  | SW       | E. S. Engle                 | 6     | R. Teeters            | 1955         | Mbe        | Shot          | --   | 3           | 799    | Pool   | CT      | Abd. 9-19  |
| 1170                  | Lake        | S 21          | 269 NL 693 WL   | SW       | E. S. Engle                 | 7     | R. Teeters            | 1955         | Mbe        | Shot          | 11   | 5           | 809    | Pool   | CT      | Abd. 9-16  |
| 1194                  | Lake        | S 21          | 1280 SL 401 WL  | SW       | E. S. Engle                 | 8     | R. Teeters            | 1955         | Mbe        | Shot          | 34   | --          | 901    | Pool   | CT      | Abd. 9-24  |
| 1487                  | Jackson     | S 28          | 477 SL 275 WL   | SW       | James H. Kiste, Jr.         | 1     | M. E. Mack            | 1957         | Mbe        | Shot          | 15   | --          | 756    | Pool   | CT      | Abd. 11-2  |
| 1724                  | Jackson     | S 34          | 900 NL 310 EL   | SE       | Waltz Bros.                 | 8     | Loya Warnes           | 1959         | Mbe        | Shot          | 30   | 8           | 690    | Pool   | CT      | Abd. 8-5   |
| 1761                  | Jackson     | S 34          | 200 SL 100 EL   | SW       | Waltz Bros.                 | 1-A   | C. B. MacBeth         | 1959         | Mbe        | Nat           | --   | 5           | 702    | Pool   | CT      | Abd. 3-2   |
| 1824                  | Perry       | S 9           | 1120 SL 415 EL  | NW       | James H. Kiste, Jr.         | 12    | J. O. Worst           | 1960         | Mbe        | Nat?          | --   | 1           | 830    | Pool   | CT      | Abd. 5-27  |
| 2152                  | Mohican     | S 9           | 2340 SL 2230 WL | SW       | Hamm, Bacon, & Duty         | 3     | R. Noggle             | 1963         | Mbe        | Shot          | --   | 1           | 576    | Pool   | CT      | Abd. 4-14  |
| 2189                  | Perry       | S 4           | 1575 SL 925 WL  | NE       | McHaffey                    | 24    | C. Smalley            | 1963         | Mbe        | Shot          | --   | 3           | 850    | Pool   | CT      | Abd. 6-4   |
| 2280                  | Mohican     | S 8           | 280 SL 530 WL   | SW       | Ohio Fuel Gas Co.           | 1     | Cooper & Charles Hrs. | 1915         | Sal        | Nat?          | 2750 | --          | 2696   | Pool   | CT      | Abd. 8-19  |
| 2281                  | Mohican     | S 8           | 550 SL 1800 WL  | SW       | Ohio Fuel Gas Co.           | 1     | M. Hunn (G. Smith)    | 1915         | Sal        | Nat?          | 2750 | --          | 2690   | Pool   | CT      | Abd. 8-13  |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township  | Land Division | Location        | Operator | Well No.              | Lease | Date Comp.             | Deepest Unit | Type Comp. | Initial Prod. |        | Total Depth | Class. | Tools | Remarks |           |
|-----------------------|-----------|---------------|-----------------|----------|-----------------------|-------|------------------------|--------------|------------|---------------|--------|-------------|--------|-------|---------|-----------|
|                       |           |               |                 |          |                       |       |                        |              |            |               | MCFGPD | BOPD        |        |       |         |           |
| ASHLAND COUNTY (con.) |           |               |                 |          |                       |       |                        |              |            |               |        |             |        |       |         |           |
| 2282                  | Mohican   | S 18          | 1550 NL 2100 WL | NW       | Ohio Fuel Gas Co.     | 1     | P. Shafer (Donelson)   | 1916         | Sal        | Nat?          | 1879   | --          | 2753   | Pool  | CT      | Abd. 8-?  |
| 2326                  | Perry     | S 29          |                 |          | Carter M. Hanna       | 2     | Lindecamp (Fletcher)   | ?            | Mbe        | ?             | --     | ?           | 685    | Pool  | CT      | Abd. 12-? |
| 2327                  | Vermilion | S 9           | 390 SL 500 WL   | SW       | Ohio Fuel Gas (Logan) | 2     | P. Dennis (G. Long)    | 1913         | Sal        | Nat?          | 241    | --          | 2804   | Pool  | CT      | Abd. 12-? |
|                       |           | SUMMARY       | ABANDONED-18    |          |                       |       |                        |              |            |               |        |             |        |       |         |           |
| GAS INJECTION         |           |               |                 |          |                       |       |                        |              |            |               |        |             |        |       |         |           |
| 2206                  | Jackson   | S 33          | 1178 SL 342 EL  | NE       | Glenn Hottel          | 13    | M. F. Ramage           | 4-3          | Mbe        | --            | --     | --          | 716    | Pool  | CT      | Input     |
| 2223                  | Perry     | S 3           | 1020 NL 1140 EL | NE       | Waltz Bros.           | 59    | G. H. Smith            | 2-3          | Mbe        | --            | --     | --          | 632    | Pool  | RT      | Input     |
|                       |           | SUMMARY       | GAS INJECTION-2 |          | TOTAL FEET-1348       |       |                        |              |            |               |        |             |        |       |         |           |
| WATERFLOOD            |           |               |                 |          |                       |       |                        |              |            |               |        |             |        |       |         |           |
|                       | Perry     | S 3           | 245 NL 236 EL   | SW       | Dymo Oil Corp.        | 6     | T. W. Miller           |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | 6-14  | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       | RT      |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | 0-5   | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       | RT      |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | 0-6   | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | 0-11  | Thomas Miller, Jr.     | 1963         | Mbe        | Shot          |        |             | 716    |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | 0-12  | Thomas Miller, Jr.     | 1963         | Mbe        | Shot          |        |             | 715    |       |         |           |
|                       | Perry     | S 3           | 1090 NL 641 EL  | SW       | Dymo Oil Corp.        | 0-17  | Thomas Miller, Jr.     | 12-8         | Mbe        |               | ?      |             | 703    |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | 0-18  | Thomas Miller, Jr.     | 1-6          | Mbe        | Shot          |        |             | 700    |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-2   | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-3   | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-11  | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       | RT      |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-12  | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-14  | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-18  | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 3           | 876 NL 817 EL   | SW       | Dymo Oil Corp.        | W-19  | Thomas Miller, Jr.     | 12-23        | Mbe        |               | ?      |             | 702    |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-20  | Thomas Miller, Jr.     | 1963         | Mbe        | Shot          |        |             | 723    |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-21  | Thomas Miller, Jr.     |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 3           |                 |          | Dymo Oil Corp.        | W-22  | Thomas Miller, Jr.     |              | Mbe        |               |        |             | 726    |       |         | Input     |
|                       | Perry     | S 17          | 619 SL 485 EL   | SW       | Peake Pet. Co.        | 40    | J. A. Finley           |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 17          | 938 SL 500 EL   | SW       | Peake Pet. Co.        | 41    | J. A. Finley           | 1-20         | Mbe        |               | --     | 2           | 791    |       | CT      |           |
|                       | Perry     | S 17          | 1350 SL 500 WL  | SE       | Peake Pet. Co.        | 38    | H. L. Harpster         |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 17          | 1450 SL 320 WL  | SE       | Peake Pet. Co.        | W-127 | H. L. Harpster         |              | Mbe        |               |        |             |        |       |         |           |
|                       | Perry     | S 17          | 1000 NL 320 WL  | SE       | Peake Pet. Co.        | W-128 | H. L. Harpster         |              | Mbe        |               |        |             |        |       |         |           |
|                       |           | SUMMARY       | WATERFLOOD-23   |          |                       |       |                        |              |            |               |        |             |        |       |         |           |
| STORAGE               |           |               |                 |          |                       |       |                        |              |            |               |        |             |        |       |         |           |
|                       | Green     |               |                 |          | Ohio Fuel Gas Co.     |       | "Clinton" Storage Area |              |            |               |        |             |        |       |         |           |
|                       |           | SUMMARY       | STORAGE-70      |          | TOTAL FEET-196,349    |       |                        |              |            |               |        |             |        |       |         |           |

LIST OF OPERATIONS DURING 1964

| Permit Number              | Township  | Land Division | Location                                      | Operator                | Well No. | Lease                 | Date Comp. | Deepest Unit | Type | Initial Prod. | Total Depth | Class. | Tools | Remarks            |
|----------------------------|-----------|---------------|---|-------------------------|----------|-----------------------|------------|--------------|------|---------------|-------------|--------|-------|--------------------|
|                            |           |               |   |                         |          |                       |            |              |      | MCFGPD        | BOPD        |        |       |                    |
| <b>ASHTABULA COUNTY</b>    |           |               |   |                         |          |                       |            |              |      |               |             |        |       |                    |
| 180                        | Geneva    | L 37          | 845 NL 270 WL S 1                             | E. H. Woodworth Dlg.    | 1        | E. H. Woodworth       | 8-24       | Doh          | Nat  | --            | --          | Pool   | CT    | Domestic gas       |
| 181                        | Monroe    | L 12-W        | 2230 NL 730 EL                                | James Dlg. Corp.        | 2        | Michael Yurtz         | 2-6        | Sal          | Frac | 3500          | --          | Pool   | RT    |                    |
| 182                        | Monroe    | L 22-S        | 300 SL 830 WL                                 | Union Carbide Corp.     | 1        | Lee Tuttle            |            |              |      |               |             | Pool   | RT    | Replaced by P-185  |
| 183                        | Monroe    | S 12          | 1470 SL 1200 EL SE                            | Union Carbide Corp.     | 2        | R. & B. Humphrey      | 6-9        | Sal          | --   | --            | --          | Pool   | RT    |                    |
| 184                        | Ashtabula | City          | 24' N of S. City line<br>64' W of Dunbar Ave. | Edwin Paradis           | 1        | Edwin Paradis         |            |              |      |               |             | Pool   | CT    | OW Abd.            |
| 185                        | Monroe    | L 22-S        | 300 SL 900 EL                                 | Union Carbide Corp.     | 1        | Lee Tuttle            | 7-22       | Sal          | Frac | 1515          | --          | Pool   | CT    | Replaces P-182     |
| 186                        | Monroe    | L 23          | 626 SL 1793 EL                                | Union Carbide Corp.     | 2        | Harold Tuttle         | 9-14       | Sal          | Frac | 1000          | --          | Pool   | RT    |                    |
| 187                        | Monroe    | L 21-S        | 500 SL 220 WL                                 | Union Carbide Corp.     | 1        | D. E. Harter          |            |              |      |               |             | Pool   |       | Active             |
| 188                        | Monroe    | L 22-S        | 320 NL 940 WL                                 | Union Carbide Corp.     | 1        | O. C. Fazenbaker      | 11-19      | Sal          | Frac | 1042          | 5           | Pool   | CT    |                    |
| 189                        | Conneaut  | L 32          | 275 NL 1185 EL                                | James Dlg. Corp.        | 1        | E. J. Schor           | 12-31      | Sal          | Frac | 1116          | --          | Pool   | CT    |                    |
|                            |           | SUMMARY       | GAS-4 OIL-0                                   | COMBINATION-1           |          | DRY-1 TOTAL-6         |            |              |      | 8,173         | 5           | 19,884 | FEET  |                    |
| <b>OLD WELLS ABANDONED</b> |           |               |   |                         |          |                       |            |              |      |               |             |        |       |                    |
| 137                        | Windsor   | L 1           | 1350 SL 1500 EL                               | Northern Nat. Gas Prod. | 1-A      | W. Ritchie            | 1960       | Sal          | Frac | 68            | --          | Pool   | CT    | Abd. 10-9          |
| 143                        | Monroe    | L 20-N        | 300 NL 300 EL                                 | James Dlg. Corp.        | 2        | D. P. Groves          | 1961       | Sal          | Frac | 329           | --          | Pool   | CT    | Abd. 11-28         |
| 148                        | Conneaut  | L 31          | 600 SL 960 WL                                 | East Ohio Gas Co.       | 1        | A. Collet             | 1961       | Sal          | Frac | 183           | --          | Pool   | CT    | Abd. 11-13         |
| 184                        | Ashtabula | City          | 24' N of S. City line<br>64' W of Dunbar Ave. | Edwin Paradis           | 1        | Edwin Paradis         | ?          | Doh          | ?    | ?             | --          | Pool   | CT    | Abd. 5-5           |
|                            |           | SUMMARY       | ABANDONED-4                                   |                         |          |                       |            |              |      |               |             |        |       |                    |
| <b>ATHENS COUNTY</b>       |           |               |   |                         |          |                       |            |              |      |               |             |        |       |                    |
| 1472                       | Ames      | S 3           | 1576 SL 330 EL SE                             | Cowper Bros. Prod. Co.  | 1        | W. & J. Sharp         |            |              |      |               |             | Pool   | CT    | Canceled           |
| 1474                       | Canaan    | S 18          | 1498 SL 1190 EL SE                            | C. E. Beardmore         | 3-A      | Fred Phillips         |            |              |      |               |             | Pool   | CT    | Canceled           |
| 1476-12                    | Rome      | S 36          | 1044 NL 236 EL SE                             | O. A. Vess              | 12       | C. H. McKinley        | 3-4        | Pcr          | --   | --            | --          | Pool   | CT    |                    |
| 1486                       | Bern      | S 33          | 330 SL 100 EL                                 | Midwest Oil Corp.       | 2        | R. B. Henry           |            |              |      |               |             | Pool   | CT    | Replaced by P-1525 |
| 1488                       | York      | S 31          | 610 SL 1657 EL NE                             | B. M. Hastings          | 1        | D. L. Pidcock         | 5-?        | Sal          | Frac | 489           | --          | Pool   | CT    |                    |
| 1490                       | Ames      | S 7           | 805 SL 600 EL SE                              | Lyman I. Siler          | 1        | R. S. Harrison        | 1-18       | Mbe          | Frac | 140           | 10          | Pool   | CT    |                    |
| 1491                       | Ames      | S 2           | 638 SL 315 EL SW                              | Lyman I. Siler          | 2        | L. A. Smith           | 3-2        | Mbe          | Frac | 150           | 20          | Pool   | CT    |                    |
| 1492                       | Ames      | S 2           | 1280 SL 1832 EL SE                            | Reliance Oil Corp.      | 4        | T. J. White           | 2-24       | Mbe          | Frac | --            | 10          | Pool   | CT    | Gas 30 MCF         |
| 1493                       | York      | S 31          | 445 SL 897 EL NE                              | H. B. Ward & Son        | 4        | Carbondale Coal Co.   | 1-21       | Mbe          | Nat  | 230           | --          | Pool   | CT    |                    |
| 1494                       | Rome      | S 9           | 1312 SL 502 EL SW                             | L. S. Dailey            | 1        | Edward Wyer           | 3-26       | Pcr          | --   | --            | --          | Pool   | CT    |                    |
| 1495                       | Canaan    | S 4           | 523 SL 944 EL NE                              | Lyman I. Siler          | 1        | K. L. Britton         | 4-3        | Mbe          | Frac | 300           | 10          | Pool   | CT    |                    |
| 1496                       | York      | S 31          | 445 SL 836 EL NE                              | H. B. Ward & Son        | 5        | Carbondale Coal Co.   | 4-4        | Sal          | Frac | 325           | --          | Pool   | CT    |                    |
| 1497                       | Alexander | L 2           | 570 NL 586 WL                                 | Merrill Chase           | 5        | Merrill Chase         | 5-15       | Mbe          | Shot | --            | 2           | Pool   | CT    |                    |
| 1498                       | Bern      | S 33          | 1966 SL 585 WL SW                             | Reliance Oil Corp.      | 2        | D. O. Kasler          | 4-1        | Mbe          | Frac | --            | --          | Pool   | CT    |                    |
| 1499                       | Rome      | S 36          | 790 NL 274 EL SE                              | O. A. Vess              | 14       | C. H. McKinley        | 6-24       | Pcr          | Shot | --            | 1           | Pool   | CT    |                    |
| 1500                       | Ames      | S 2           | 700 NL 697 EL NE                              | Midwest Oil Corp.       | 3        | L. S. DePue           | 5-11       | Mbe          | Frac | --            | 20          | Pool   | CT    | Gas 25 MCF         |
| 1501                       | Ames      | S 25          | 230 NL 1470 WL                                | Lyman I. Siler          | 1        | F. R. Conner          | 5-22       | Mbe          | Frac | --            | 3           | Pool   | CT    | Gas 7 MCF          |
| 1502                       | Ames      | S 31          | 453 SL 2303 WL                                | Majorie Matthews        | 1        | Majorie Matthews      | 6-19       | Mbe          | Frac | --            | 7           | Pool   | CT    |                    |
| 1503                       | Bern      | S 32          | 400 SL 619 WL SW                              | Midwest Oil Corp.       | 1        | W. P. Davis           | 8-2        | Mbe          | Frac | 73            | 5           | Pool   | CT    |                    |
| 1504                       | Ames      | S 16          | 1809 SL 1396 EL SE                            | Joseph J. Mikelic       | 1        | Lawrence Skinner, Jr. | 6-25       | Mbe          | Frac | 315           | 60          | Pool   | CT    |                    |



## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township | Land Division | Location        |       | Operator                  | Well No.       | Lease                | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks    |
|----------------------|----------|---------------|-----------------|-------|---------------------------|----------------|----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|------------|
|                      |          |               |                 |       |                           |                |                      |            |              |            | MCFGPD        | BOPD |             |        |       |            |
| ATHENS COUNTY (con.) |          |               |                 |       |                           |                |                      |            |              |            |               |      |             |        |       |            |
| 1505                 | Bern     | S 32          | 1850 NL 814 EL  | NE    | Midwest Oil Corp.         | 1              | D. R. Marquis        | 7-16       | Mbe          | Frac       | 197           | 40   | 1712        | Pool   | CT    |            |
| 1506                 | Bern     | S 33          | 735 SL 2500 EL  | SE    | Midwest Oil Corp.         | 3              | R. B. Henry          | 6-24       | Mbe          | Frac       | 78            | 20   | 1637        | Pool   | CT    |            |
| 1507                 | Dover    | S 16          | 364 SL 426 EL   | SE    | T. F. Johnson, Jr.        | 1              | A. Marks             | 10-8       | M            | --         | --            | --   | 800         | Out    | CT    |            |
| 1508                 | Rome     | S 35          | 542 SL 1932 EL  | SE    | Lyman I. Siler            | 1              | R. & R. Petrie       | 9-3        | Mbe          | Frac       | 150           | 10   | 1728        | Out    | CT    |            |
| 1509                 | Ames     | S 16          | 644 SL 1001 EL  | SE    | Joseph J. Mikelic         | 3              | Sewell               | 8-6        | Mbe          | Frac       | 60            | 10   | 1540        | Pool   | CT    |            |
| 1510                 | Bern     | S 33          | 176 SL 585 WL   | SW    | Midwest Oil Corp.         | 4              | L. S. DePue          | 8-26       | Mbe          | Frac       | 73            | 10   | 1446        | Pool   | CT    |            |
| 1511                 | Bern     | S 32          | 1670 SL 1825 WL | SW    | Midwest Oil Corp.         | 5              | A. A. Antle          | 8-8        | Mbe          | Frac       | 84            | 12   | 1590        | Pool   | CT    |            |
| 1512                 | Ames     | S 1           | 1396 NL 380 EL  | NE    | Lyman I. Siler            | 1              | R. W. Ziegler        | 11-14      | Mbe          | Frac       | 100           | 15   | 1468        | Pool   | CT    |            |
| 1513                 | Waterloo | S 25          | 849 NL 550 EL   | NE    | David Law                 | 2              | Clyde Sickels        | 8-27       | Mbe          | Frac       | --            | 4    | 1118        | Pool   | CT    | Gas 10 MCF |
| 1514                 | Waterloo | S 25          | 232 NL 107 EL   | NE    | David Law                 | 3              | Clyde Sickels        |            |              |            |               |      |             | Pool   | CT    | Abd. Loc.  |
| 1515                 | Waterloo | S 25          | 1460 NL 118 EL  | NE    | David Law                 | 4              | Clyde Sickels        | 10-8       | Mbe          | Frac       | --            | 7    | 1112        | Pool   | CT    |            |
| 1516                 | Troy     | S 5           | 1160 SL 1275 WL | NW    | Midwest Oil Corp.         | 1              | J. M. Murphy         | 9-10       | Min          | --         | --            | --   | 1488        | Out    | CT    |            |
| 1517                 | Canaan   | S 12          | 2574 SL 436 WL  | SW    | Bern O & G Co.            | 5              | W. Mulford           | 10-12      | Mbe          | Frac       | 150           | --   | 1577        | Pool   | CT    |            |
| 1518                 | Troy     | S 15          | 1760 NL 450 WL  |       | William G. Cook           | 1              | W. G. Cook           | 10-13      | Mbe          | Shot       | --            | --   | 1881        | Pool   | CT    | Show gas   |
| 1519                 | Rome     | S 35          | 1425 SL 1434 EL | SE    | Lyman I. Siler            | 2              | R. & R. Petrie       |            |              |            |               |      |             | Pool   | CT    | Active     |
| 1520                 | Bern     | S 32          | 400 SL 1895 WL  | SW    | Midwest Oil Corp.         | 2              | W. P. Davis          | 11-3       | Mbe          | Frac       | 84            | 8    | 1591        | Pool   | CT    |            |
| 1521                 | Ames     | S 2           | 330 SL 330 EL   | SE    | Reliance Oil Corp.        | 3              | Howard Starlin       | 12-29      | Mbe          | Frac       | 100           | 30   | 1627        | Pool   | CT    |            |
| 1522                 | Bern     | S 7           | 2540 SL 2070 WL | SW    | Mason O & G Co.           | 6              | H. W. Petzinger, Tr. |            |              |            |               |      |             | Pool   | CT    | Active     |
| SUMMARY              |          |               | GAS-4           | OIL-8 | COMBINATION-14            | DRY-6 TOTAL-32 |                      |            |              |            | 3,098         | 314  | 48,540      | FEET   |       |            |
| OLD WELLS ABANDONED  |          |               |                 |       |                           |                |                      |            |              |            |               |      |             |        |       |            |
| 47                   | Athens   | S 31          | 400 SL 940 WL   | Twp.  | Gribbs Oil(Altier & Wood) | 1              | Jack Gribbs          | 1936       | Mbe          | Nat        | ?             | --   | 1120        | Pool   | CT    | Abd. 10-8  |
| 233-A-1              | Athens   | L 157         | 1500 SL 1000 WL | Twp.  | Altier & Wood Constr.     | 1              | O. O. Baker          | 1925       | Mbe          | ?          | ?             | --   | 1185        | Pool   | CT    | Abd. 5-2   |
| 350-A-2              | Athens   | L 17          |                 |       | Richland Ave. O & G       | 2              | E. R. Lash           | ?          | Mbe          | ?          | --            | ?    | 1125        | Pool   | CT    | Abd. 2-25  |
| 354-A-2              | Bern     | S 30          | 280 NL 2000 WL  | NW    | Ohio Fuel Gas Co.         | 2              | E. C. Glass          | 1928       | Mbe          | Nat?       | ?             | --   | 1687        | Pool   | CT    | Abd. 6-4   |
| 360-A-7              | Bern     | S 23          | 2220 SL 630 EL  | SE    | Ohio Fuel Gas Co.         | 7              | Black Diamond Coal   | 1928       | Pss          | Nat?       | ?             | --   | 972         | Pool   | CT    | Abd. 6-22  |
| 361-A-10             | Bern     | S 23          | 1880 NL 600 EL  | NE    | Ohio Fuel Gas Co.         | 10             | Black Diamond Coal   | 1945       | Pss          | Nat?       | ?             | --   | 1025        | Pool   | CT    | Abd. 7-6   |
| 370                  | Waterloo | S 12          |                 |       | H. C. Williams            | 2              | E. & K. Martin       | 1940       | Mbe          | Shot       | ?             | ?    | 1180        | Pool   | CT    | Abd. 8-18  |
| 402-A-1              | Ames     | S 5           | 2360 SL 480 EL  | NE    | Ohio Fuel Gas Co.         | 1              | G. O. Linscott       | 1928       | Mbe          | Nat?       | ?             | --   | 1375        | Pool   | CT    | Abd. 7-21  |
| 427                  | Waterloo |               |                 |       | H. C. Williams            | 1              | J. R. Young          | 1941       | Min?         | Shot       | ?             | ?    | 1065        | Pool   | CT    | Abd. 8-18  |
| 433-A-2              | Bern     | S 33          | 1440 NL 680 WL  | NW    | Ohio Fuel Gas Co.         | 2              | G. M. Kasler         | 1930       | Mbe          | Nat?       | ?             | --   | 1531        | Pool   | CT    | Abd. 8-3   |
| 437-A-2              | Ames     | S 5           | 765 NL 710 WL   | SE    | Ohio Fuel Gas Co.         | 2              | T. Fleming           | 1930       | Mbe          | Nat?       | 95            | --   | 1530        | Pool   | CT    | Abd. 6-4   |
| 458-A-1              | Ames     | S 6           | 500 SL 2300 WL  | SW    | Ohio Fuel Gas Co.         | 1              | Q. E. Wooley         | 1941       | Mbe          | Nat?       | ?             | --   | 1410        | Pool   | CT    | Abd. 6-4   |
| 470-A-2              | Bern     | S 35          | 630 NL 400 WL   | NW    | Ohio Fuel Gas Co.         | 2              | F. Fleming           | 1929       | Mbe          | Nat?       | ?             | --   | 1565        | Pool   | CT    | Abd. 6-29  |
| 471-A-3              | Bern     | S 36          | 2060 SL 840 WL  | SW    | Ohio Fuel Gas Co.         | 3              | F. Fleming           | 1930       | Mbe          | Nat?       | ?             | --   | 1653        | Pool   | CT    | Abd. 6-20  |
| 578                  | York     | S 5           | 2420 SL 720 WL  | SW    | Kachelmacher Est.         | 1              | L. B. Head           | 1942       | Sal          | Nat?       | ?             | ?    | 3455        | Pool   | CT    | Abd. 10-5  |
| 658-A-3              | Carthage | S 4           | 400 SL 1850 WL  | SW    | Ohio Fuel Gas Co.         | 3              | J. W. Kincade        | 1941       | Pss          | Nat?       | ?             | --   | 1061        | Pool   | CT    | Abd. 7-2   |
| 665-A-1              | Carthage | S 4           | 610 SL 560 WL   | SW    | Ohio Fuel Gas Co.         | 1              | F. I. Caldwell       | 1929       | Pss          | ?          | ?             | --   | 1085        | Pool   | CT    | Abd. 6-25  |
| 676-A-2              | Carthage | S 4           | 1020 SL 2280 EL | SE    | Ohio Fuel Gas Co.         | 2              | U. G. Hoard          | 1948       | Mke          | Nat?       | ?             | --   | 1250        | Pool   | CT    | Abd. 7-7   |
| 879                  | Carthage | S 31          | 320 NL 200 EL   | NW    | Preston Oil Co.           | 7              | J. W. Barnhill       | 1948       | Mbe          | Nat?       | ?             | --   | 1695        | Pool   | CT    | Abd. 7-15  |
| 895                  | Rome     | S 30          | 74 NL 343 WL    | NE    | Gaylord O & G Co.         | 9              | Gaylord O & G Co.    | 1948       | Pcr          | Nat?       | --            | ?    | 412         | Pool   | CT    | Abd. 11-9  |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator           | Well No.                | Lease               | Date Comp.       | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks    |                     |
|----------------------|------------|---------------|-----------------|--------------------|-------------------------|---------------------|------------------|--------------|------------|---------------|------|-------------|--------|-------|------------|---------------------|
|                      |            |               |                 |                    |                         |                     |                  |              |            | MCFGPD        | BOPD |             |        |       |            |                     |
| ATHENS COUNTY (con.) |            |               |                 |                    |                         |                     |                  |              |            |               |      |             |        |       |            |                     |
| 1087                 | Ames       | S 16          | 4958 SL 800 WL  | Ohio Fuel Gas Co.  | 1                       | T. M. Keirns        | 1953             | Mbe          | Frac       | 86            | --   | 1629        | Pool   | CT    | Abd. 6-4   |                     |
| 1158                 | Canaan     | S 12          | 1367 NL 1033 EL | Sperry O & G Co.   | 3                       | C. F. Dorr          | 1954             | Mbe          | Nat?       | ?             | --   | 1617        | Pool   | CT    | Abd. 10-21 |                     |
| 1229                 | Canaan     | S 27          | 1900 NL 500 EL  | Barry O & G Co.    | 1                       | V. & L. Kelly       | 1956             | Mbe          | Frac       | 85            | --   | 1650        | Pool   | CT    | Abd. 10-8  |                     |
| 1231                 | Alexander  | S 32          | 2166 SL 1735 WL | Harry Kwatkosky    | 1                       | B. Williams (Blake) | 1956             | Mbe          | ?          | --            | 3    | 1309        | Pool   | CT    | Abd. 10-30 |                     |
| 1424                 | Bern       | S 33          | 1933 NL 2582 WL | Reliance Oil Corp. | 1                       | C. C. Curtis        | 1962             | Mbe          | Frac       | 60            | 15   | 1465        | Pool   | CT    | Abd. 12-8  |                     |
| 1467                 | Bern       | S 33          | 1981 SL 1640 WL | Reliance Oil Corp. | 1                       | M. R. Campbell      | 1963             | Mbe          | Frac       | --            | 10   | 1408        | Pool   | CT    | Abd. 4-6   |                     |
|                      |            | SUMMARY       | ABANDONED-26    |                    |                         |                     |                  |              |            |               |      |             |        |       |            |                     |
| AUGLAIZE COUNTY      |            |               |                 |                    |                         |                     |                  |              |            |               |      |             |        |       |            |                     |
| 41                   | Goshen     | VMSL 12276    | 3900 SL 3900 EL | Twp.               | Richard Pryer           | 1                   | C. Meyers        | 2-13         | €          | Shot          | --   | --          | 1975   | FWC   | CT         | PB to Ot Gas 22 MCF |
| 42                   | Goshen     | S 11          | 276 SL 2020 WL  | NW                 | Donald Runyon Co.       | 1                   | Frank Barnes     | 4-30         | €          | Shot          | 150  | --          | 1960   | Pool  | CT         | PB to Ot            |
| 43                   | Goshen     | VMSL 10659    | 5600 SL 2100 EL |                    | Richard Pryer           | 1                   | John Manchester  |              |            |               |      |             |        | Pool  | CT         | Canceled            |
| 44                   | Goshen     | VMSL 12276    | 2080 SL 4335 EL | Twp.               | Dorwin Teeters          | 1                   | F. Golliday      | 12-?         | €          | --            | --   | --          | 1960   | Pool  | CT         |                     |
| 45                   | Salem      | S 2           | 330 NL 630 WL   | NW                 | Matthew Roeder          | 2                   | Joe Rohrbach     |              |            |               |      |             |        | Pool  | CT         | OW Abd.             |
| 46                   | Goshen     | VMSL 12276    | 6700 SL 467 EL  | Twp.               | N. B. Kobansoff         | 1                   | C. M. Manchester | 12-?         | €          | --            | --   | --          | 1954?  | Pool  | CT         |                     |
| 47                   | Noble      | S 8           | 2550 SL 1550 EL | SW                 | Archer Pipe & Supply    | 1                   | Fred Fisher      |              |            |               |      |             |        | Pool  | CT         | OW Abd.             |
| 48                   | Union      | S 35          | 330 NL 2323 EL  | NE                 | Simcox Oil Co.          | 1                   | Don Marshall     |              |            |               |      |             |        | FWC   | RT         | Abd. Loc.           |
| 49                   | Union      | S 25          | 330 SL 330 EL   | SE                 | Simcox Oil Co.          | 2                   | Newt Gallant     |              |            |               |      |             |        | FWC   | RT         | Abd. Loc.           |
| 50                   | Logan      | S 1           | 990 SL 1676 WL  | SW                 | H. A. Baumberger        | 1                   | David Sunderland | 12-25        | Ot         | --            | --   | --          | 1247   | FWC   | CT         | Show oil            |
| 51                   | Goshen     | VMSL 10659    | 5250 SL 420 EL  | Twp.               | Sohio Pet. Co.          | 1                   | R. & B. Nickell  | 10-2         | Ot         | Shot          | 225  | --          | 1710   | Pool  | RT         |                     |
| 52                   | Logan      | S 32          | 1077 NL 811 EL  | NE                 | Amanda, Inc.            | 1                   | R. R. Metzger    | 11-28        | Ot         | --            | --   | --          | 1500   | Pool  | CT         |                     |
| 53                   | Salem      | S 31          | 330 SL 330 EL   | SE                 | K. W. Hopkins           | 1                   | S. Barber        |              |            |               |      |             |        | FWC   | CT         | Active              |
| 54                   | Moulton    | S 15          | 1637 SL 1813 EL | SE                 | Nell Stull (Baumberger) | 1                   | H. & H. Doering  | 11-24        | €          | --            | --   | --          | 1865   | DPWC  | CT         |                     |
| 55                   | Duchouquet | S 4           | 1700 SL 1700 WL | SW                 | Pyramid Oil Co.         | 1                   | W. & E. Smith    | 12-18        | €          | --            | --   | --          | 2101   | FWC   | CT         |                     |
| 56                   | Pusheta    | S 7           | 1960 NL 1940 EL | SE                 | Holly Oil Exploration   | 1                   | C. E. McCormick  |              |            |               |      |             |        | FWC   | RT         | Active              |
| 57                   | Washington | S 30          | 230 SL 2728 EL  |                    | Robert Wierville        | 1                   | R. A. Wierville  |              |            |               |      |             |        | Pool  | CT         | Active              |
|                      |            | SUMMARY       | GAS-2 OIL-0     | COMBINATION-0      |                         | DRY-7 TOTAL-9       |                  |              |            | 375           | 0    | 16,272      | FEET   |       |            |                     |
| OLD WELLS ABANDONED  |            |               |                 |                    |                         |                     |                  |              |            |               |      |             |        |       |            |                     |
| 45                   | Salem      | S 2           | 330 NL 630 WL   | NW                 | Matthew Roeder          | 2                   | Joe Rohrbach     | ?            | Ot         | ?             | --   | ?           | 1196   | Pool  | CT         | Abd. 6-24           |
| 47                   | Noble      | S 8           | 2550 SL 1550 EL | SW                 | Archer Pipe & Supply    | 1                   | Fred Fisher      | ?            | Ot         | ?             | --   | ?           | 1235   | Pool  | CT         | Abd. 5-22           |
|                      |            | SUMMARY       | ABANDONED-2     |                    |                         |                     |                  |              |            |               |      |             |        |       |            |                     |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964

## LIST OF OPERATIONS DURING 1964

| Permit Number    | Township | Land Division | Location         |       | Operator                | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                                   |
|------------------|----------|---------------|------------------|-------|-------------------------|----------|--------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|---|
|                  |          |               |                  |       |                         |          |                    |            |              |            | MCFGPD        | BOPD |             |        |       |   |
| BELMONT COUNTY   |          |               |                  |       |                         |          |                    |            |              |            |               |      |             |        |       |   |
| 257              | Smith    | S 7           | 374 SL 900 EL    | SW    | Gordon O & G Co.        | 3        | Elwood Fankhauser  | 3-19       | Min          | --         | --            | --   | 1522        | Pool   | CT    | Canceled<br><br>Abd. Loc.                 |
| 258              | Wayne    | S 19          | 1019 SL 208 WL   | NE    | Brushy Oil Co.          | 5        | Miles LaFaber      |            |              |            |               |      |             | Pool   | CT    |   |
| 259              | Warren   | S 9           | 587 SL 140 WL    | NW    | Cook Production Co.     | 1        | D. R. Walker       | 12-10      | Min          | --         | --            | --   | 1345        | Pool   | CT    |   |
| 260              | Goshen   | S 18          | 300 NL 1534 EL   | SE    | James B. Ray            | 1        | J. & L. Ray        |            |              |            |               |      |             | Pool   | CT    |   |
| 261              | Warren   | S 12          | 798 SL 1408 EL   | SE    | Carl E. Smith           | 1        | C. & M. Smith      | 9-21       | Doh          | --         | --            | --   | 2255        | Out    | CT    |   |
|                  |          | SUMMARY       | GAS-0            | OIL-0 | COMBINATION-0           |          | DRY-3 TOTAL-3      |            |              |            | 0             | 0    | 5,122       | FEET   |       |   |
| CARROLL COUNTY   |          |               |                  |       |                         |          |                    |            |              |            |               |      |             |        |       |   |
| 218              | East     | S 18          | 1041 SL 576 EL   | NE    | Curtis L. McGhee        | 4        | E. & C. McGhee     | 6-?        | Mbe          | Shot       | --            | 1    | 1010        | Pool   | CT    |   |
| 219              | Rose     | S 35          | 660 SL 730 EL    | NW    | Belden & Blake & Co.    | 1        | Louisa Farber      | 12-27      | Sal          | Frac       | --            | 60   | 5016        | Pool   | RT    |   |
|                  |          | SUMMARY       | GAS-0            | OIL-2 | COMBINATION-0           |          | DRY-0 TOTAL-2      |            |              |            | 0             | 61   | 6,026       | FEET   |       |   |
| CHAMPAIGN COUNTY |          |               |                  |       |                         |          |                    |            |              |            |               |      |             |        |       |   |
| 1                | Goshen   | VMSL 6349     | 6360 SL 1695 WL  | Twp.  | A. J. Hodges Industries | 1        | E. Ropp            |            |              |            |               |      |             | FWC    | RT    | Replaced by P-2<br><br>Canceled<br>Active |
| 2                | Goshen   | VMSL 6349     | 6360 SL 1695 WL  | Twp.  | A. J. Hodges Industries | 1        | E. Ropp            | 5-1        | €ms          | --         | --            | --   | 3310        | FWC    | RT    |   |
| 3                | Union    | VMSL 5596     | 2880 NL 922 WL   |       | James O. Kelly          | 1        | S. L. Yocum        | 5-18       | €cr          | --         | --            | --   | 2252        | FWC    | RT    |   |
| 4                | Jackson  | S 11          | 330 SL 390 EL    | SW    | Thor Pet. Co.           | 1        | Dane Carnes        |            |              |            |               |      |             | FWC    | RT    |   |
| 5                | Wayne    | VMSL 4516     | 7880 SL 11300 EL | Twp.  | Max Brandeberry         | 1        | Clarence Black     |            |              |            |               |      |             | FWC    | CT    |   |
| 6                | Goshen   | VMSL 6444     | 1500 SL 990 WL   |       | United Dlg. Co.         | 1        | P. F. Pence        | 5-15       | €cr          | --         | --            | --   | 2278        | FWC    | RT    |   |
| 7                | Wayne    | VMSL 1118     | 860 NL 1775 WL   |       | James O. Kelly          | 1        | Triad School Board | 6-30       | €cr          | --         | --            | --   | 2085        | FWC    | CT    |   |
| 8                | Wayne    | VMSL 13005    | 330 NL 330 WL    |       | Ralph Wheeler           | 1        | Carl Pooler        | 6-21       | €cr          | --         | --            | --   | 2093        | FWC    | RT    |   |
|                  |          | SUMMARY       | GAS-0            | OIL-0 | COMBINATION-0           |          | DRY-5 TOTAL-5      |            |              |            | 0             | 0    | 12,018      | FEET   |       |   |
| CLARK COUNTY     |          |               |                  |       |                         |          |                    |            |              |            |               |      |             |        |       |   |
| 3                | Harmony  | S 3           | 81 NL 454 EL     | SE    | A. J. Hodges Industries | 1        | Elcamere Farms     | 5-18       | PC           | --         | --            | --   | 3570        | FWC    | RT    |   |
| 4                | Pleasant | VMSL 6343     | 315 NL 20500 EL  |       | Capitol City Pet. Corp. | 1        | A. E. Knox         | 6-20       | €cr          | --         | --            | --   | 2203        | FWC    | CT    |   |
|                  |          | SUMMARY       | GAS-0            | OIL-0 | COMBINATION-0           |          | DRY-2 TOTAL-2      |            |              |            | 0             | 0    | 5,773       | FEET   |       |   |
| CLINTON COUNTY   |          |               |                  |       |                         |          |                    |            |              |            |               |      |             |        |       |   |
| 9                | Wayne    | VMSL 6298     | 675 NL 760 EL    |       | Bryan M. Lloyd          | 1        | C. W. Hudson       | 11-30      | €ms          | --         | --            | --   | 3325        | FWC    | RT    |   |
|                  |          | SUMMARY       | GAS-0            | OIL-0 | COMBINATION-0           |          | DRY-1 TOTAL-1      |            |              |            | 0             | 0    | 3,325       | FEET   |       |   |
|                  |          |               |                  |       |                         |          |                    |            |              |            |               |      |             |        |       |   |

LIST OF OPERATIONS DURING 1964

| Permit Number     | Township  | Land Division | Location        |       | Operator                   | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |        | Total Depth | Class. | Tools | Remarks            |
|-------------------|-----------|---------------|-----------------|-------|----------------------------|----------|--------------------|------------|--------------|------------|---------------|--------|-------------|--------|-------|--------------------|
|                   |           |               |                 |       |                            |          |                    |            |              |            |               | MCFGPD | BOPD        |        |       |                    |
| COLUMBIANA COUNTY |           |               |                 |       |                            |          |                    |            |              |            |               |        |             |        |       |                    |
| 546               | Salem     | S 15          | 133 SL 1063 WL  | SW    | CY-BO Mining Co.           | 1        | Ralph Entriken     | 10-8       | Mbe          | --         | --            | --     | 947         | NWC    | CT    |                    |
| 547               | Middleton | S 28          | 805 SL 1045 EL  | SE    | H. C. Cope                 | 1        | Bernie Eskew       | 12-28      | Msq          | Nat        | --            | 1      | 584         | Pool   | CT    |                    |
| 548               | Hanover   | S 15          | 660 NL 660 EL   | NW    | Kin-Ark Oil Co.            | 2        | R. J. Batzli       | 11-26      | Sal          | --         | --            | --     | 5985        | DPWC   | RT    |                    |
|                   |           | SUMMARY       | GAS-0           | OIL-1 | COMBINATION-0              |          | DRY-2              |            | TOTAL-3      |            | 0             |        | 1           | 7,516  | FEET  |                    |
| STORAGE           |           |               |                 |       |                            |          |                    |            |              |            |               |        |             |        |       |                    |
| Fairfield         |           |               |                 |       | Manufacturers Light & Heat |          | Berea Storage Area |            |              |            |               |        |             |        |       |                    |
|                   |           | SUMMARY       | STORAGE-1       |       | TOTAL FEET-962             |          |                    |            |              |            |               |        |             |        |       |                    |
| COSHOCTON COUNTY  |           |               |                 |       |                            |          |                    |            |              |            |               |        |             |        |       |                    |
| 1554              | Monroe    | L 25          | 175 SL 660 EL   |       | W. H. Patten Dlg.          | 3        | E. A. Robinson     | 8-?        | M            | --         | --            | --     | 500?        | Pool   | CT    | Discontinued       |
| 1586              | Tiverton  | S 9           | 890 SL 983 WL   | NW    | Grady O. & G.              | 2        | L. & B. Hays       | 6-?        | M            | --         | --            | --     | 464?        | FWC    | CT    | Discontinued       |
| 1595              | Perry     | S 10          | 1080 NL 920 EL  | NE    | Fred F. Cannon             | 1        | Luella Horn        | 4-29       | Sal          | Frac       | --            | 40     | 3198        | Pool   | CT    |                    |
| 1598              | Clark     | L 4 (2Q)      | 330 NL 930 EL   |       | Midwest O & G              | C-1      | G. Scheibe         | 1963       | Sal          | Frac       | --            | 10     | 3564        | Pool   | CT    | Gas 50 MCF         |
| 1605              | Monroe    | S 15          | 967 NL 402 EL   | NW    | R. L. G. Dlg.              | 1        | Pearl Kornis       | 1-22       | Sal          | Frac       | 819           | 10     | 3581        | Pool   | CT    |                    |
| 1606              | Pike      | S 9           | 169 SL 960 EL   | NW    | Reliance Oil Corp.         | 1        | L. A. Anderson     | 1-20       | Sal          | Frac       | --            | 20     | 3296        | Pool   | CT    |                    |
| 1608              | Monroe    | L 10          | 1300 NL 400 WL  |       | Natol Pet. Corp.           | 1        | Taylor-Smith       | 1-3        | Sal          | Frac       | 200           | 100    | 3553        | Pool   | CT    |                    |
| 1609              | Tiverton  | S 11          | 832 SL 1680 EL  | SE    | Ratliff Oil Prod.          | 3        | Howard Kanuckle    | 1-31       | Sal          | Frac       | 100           | 50     | 3383        | Pool   | CT    |                    |
| 1610              | Pike      | S 22          | 660 SL 505 EL   | NW    | Dynamic Mineral Devel.     | 1        | J. & M. Lewis      | 1-24       | Sal          | --         | --            | --     | 3225        | Pool   | CT    |                    |
| 1611              | Pike      | S 13          | 1463 SL 640 EL  | SE    | S. W. Bardill              | 2-A      | French Russell     | 1-18       | Sal          | Frac       | --            | 30     | 3360        | Pool   | CT    | Gas 75 MCF         |
| 1612              | Pike      | S 24          | 478 NL 114 WL   | SE    | S. W. Bardill              | 2-A      | F. E. Wolford      | 1-8        | Sal          | Frac       | 100           | 30     | 3109        | Pool   | CT    |                    |
| 1613              | Pike      | S 12          | 495 NL 660 WL   | SW    | Franklin Oil Co.           | 6        | A. C. Graham       | 2-29       | Sal          | Nat        | --            | 40     | 3232        | Pool   | CT    |                    |
| 1614              | Pike      | S 16          | 2230 NL 1850 WL | NW    | Reliance Oil Corp.         | 2        | George Westerfelt  | 2-13       | Sal          | Frac       | --            | 40     | 3163        | Pool   | CT    | Gas 50 MCF         |
| 1615              | Pike      | S 22          | 1100 NL 330 EL  | SE    | W. E. Shrider              | 1        | Estella Ashcraft   | 2-2        | Sal          | Frac       | --            | 50     | 3317        | Pool   | CT    |                    |
| 1616              | Tiverton  | S 7           | 601 SL 668 WL   | NW    | John C. Mason              | 1-A      | Clarence Holt      | 2-3        | Sal          | Frac       | 101           | 30     | 3300        | Pool   | CT    |                    |
| 1617              | Tiverton  | S 10          | 250 SL 443 EL   | SE    | R. L. G. Dlg.              | 1-       | Paul Anderson      | 4-11       | Sal          | Frac       | --            | 35     | 3560        | Pool   | CT    |                    |
| 1618              | Tiverton  | S 11          | 700 NL 970 EL   | NE    | Ratliff Oil Prod.          | 2        | Mary McClain       | 3-24       | Sal          | Frac       | 400           | 60     | 3428        | Pool   | CT    |                    |
| 1619              | Monroe    | S 15          | 330 NL 700 WL   | NW    | Ratliff Oil Prod.          | 3        | Mary McClain       | 5-7        | Sal          | Frac       | --            | 100    | 3570        | Pool   | CT    |                    |
| 1620              | Pike      | S 13          | 1037 SL 227 WL  | SE    | S. W. Bardill              | 3-A      | Hattie Russell     | 3-1        | Sal          | Frac       | --            | 275    | 3203        | Pool   | CT    |                    |
| 1621              | Pike      | S 13          | 872 SL 1286 EL  | SE    | S. W. Bardill              | 2-A      | Hattie Russell     |            |              |            |               |        |             | Pool   | CT    | Replaced by P-166B |
| 1622              | Pike      | S 23          | 330 NL 1200 EL  | NE    | Hoosier Oil Co.            | 1        | Lawrence McKee     | 3-10       | Sal          | Frac       | --            | 15     | 3252        | Pool   | CT    |                    |
| 1623              | Pike      | S 19          | 1520 SL 500 EL  | SE    | Allen Willey               | 4        | G. & R. McKee      | 3-2        | Sal          | Frac       | --            | 50     | 3305        | Pool   | CT    |                    |
| 1624              | Pike      | S 9           | 145 SL 434 WL   | NW    | Reliance Oil Corp.         | 2        | L. A. Anderson     | 3-27       | Sal          | Frac       | --            | 25     | 3283        | Pool   | CT    | Gas 50 MCF         |
| 1625              | Pike      | S 9           | 475 NL 407 EL   | NW    | Reliance Oil Corp.         | 3        | L. A. Anderson     | 3-11       | Sal          | Frac       | --            | 30     | 3250        | Pool   | CT    | Gas 50 MCF         |
| 1626              | Monroe    | L 11          | 600 NL 100 WL   |       | Natol Pet. Corp.           | 1        | Grover Smith       | 3-30       | Sal          | Frac       | --            | 35     | 3510        | Pool   | CT    |                    |
| 1627              | Tiverton  | S 7           | 425 NL 669 WL   | NW    | John C. Mason              | 2-A      | Clarence Holt      | 3-13       | Sal          | Frac       | --            | 20     | 3307        | Pool   | CT    | Gas 40 MCF         |
| 1628              | Monroe    | L 10          | 623 NL 397 EL   |       | W. C. G., Inc.             | 1        | Ralph Krownapple   |            |              |            |               |        |             | Pool   | CT    | Canceled           |
| 1629              | Pike      | S 18          | 1144 NL 834 EL  | NE    | S. W. Bardill              | 3-A      | Ben Wolford        | 4-20       | Sal          | Frac       | --            | 21     | 3338        | Pool   | CT    |                    |
| 1630              | Tiverton  | S 7           | 660 SL 660 EL   | NW    | John C. Mason              | 3        | C. & S. Holt       |            |              |            |               |        |             | Pool   | CT    | Replaced by P-1637 |
| 1631              | Tiverton  | S 7           | 550 NL 660 WL   | SW    | John C. Mason              | 3-A      | C. & S. Holt       |            |              |            |               |        |             | Pool   | CT    | Replaced by P-1698 |

## LIST OF OPERATIONS DURING 1964

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SUMMARY OF OIL AND GAS ACTIVITY IN 1964

| Permit Number            | Township | Land Division | Location        | Operator                   | Well No. | Lease                | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|--------------------------|----------|---------------|-----------------|----------------------------|----------|----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                          |          |               |                 |                            |          |                      |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| COSHOCKTON COUNTY (con.) |          |               |                 |                            |          |                      |            |              |            |               |      |             |        |       |                    |
| 1632                     | Monroe   | L 8           | 215 NL 1171 WL  | W. C. G., Inc.             | 1        | A. & E. Donaker      |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1633                     | Monroe   | L 10          | 698 SL 65 EL    | W. C. G., Inc.             | 1        | Francis Krownapple   | 4-10       | Sal          | Frac       | 206           | --   | 3651        | Pool   | CT    |                    |
| 1634                     | Tiverton | S 1           | 350 NL 874 EL   | SW Kenneth Hunt            | 1        | O. Borden & Wickam   |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1635                     | Tiverton | S 1           | 350 NL 564 EL   | NW Kenneth Hunt            | 1        | C. & I. Givens       | 5-15       | Sal          | Frac       | 379           | 40   | 3139        | Pool   | CT    |                    |
| 1636                     | Pike     | S 21          | 660 SL 650 EL   | SW Franklin Oil Co.        | 2        | A. & G. Graham       | 5-1        | Sal          | Frac       | 1060          | 10   | 3350        | Pool   | CT    |                    |
| 1637                     | Tiverton | S 7           | 660 SL 660 EL   | NW John C. Mason           | 3        | C. & S. Holt         | 4-27       | Sal          | Frac       | --            | 35   | 3279        | Pool   | CT    | Replaces P-1630    |
| 1638                     | Pike     | S 18          | 365 NL 344 EL   | SE S. W. Bardill           | 3        | Leland Ashcraft      | 5-8        | Sal          | Frac       | --            | 23   | 3274        | Pool   | CT    |                    |
| 1639                     | Pike     | S 23          | 920 SL 1320 WL  | SW W. E. Shrider           | 1        | R. & L. McKee        | 4-25       | Sal          | Frac       | --            | 125  | 3311        | Pool   | CT    |                    |
| 1640                     | Tiverton | S 11          | 1191 SL 1650 EL | NE Crest Oil Co.           | 1        | A. & M. Hoberg       | 5-13       | Sal          | Frac       | --            | 116  | 3448        | Pool   | CT    |                    |
| 1641                     | Pike     | S 13          | 1345 SL 1000 WL | SE S. W. Bardill           | 4-A      | Hattie Russell       | 6-4        | Sal          | Frac       | --            | 40   | 3289        | Pool   | CT    |                    |
| 1642                     | Pike     | S 20          | 330 SL 1550 WL  | NW Carl E. Smith           | 3        | J. & M. Lewis        | 6-19       | Sal          | Frac       | --            | 240  | 3327        | Pool   | CT    |                    |
| 1643                     | Pike     | S 22          | 500 NL 1060 EL  | SE Oxford Oil Co.          | 2        | M. Phelps            | 6-?        | Sal          | Frac       | --            | 25   | 3242        | Pool   | CT    |                    |
| 1644                     | Pike     | S 18          | 350 SL 400 EL   | NE S. W. Bardill           | 1        | L. A. Myers          | 6-10       | Sal          | Frac       | --            | 40   | 3308        | Pool   | CT    |                    |
| 1645                     | Pike     | S 21          | 660 SL 660 EL   | SW Franklin Oil Co.        | 7        | Alex Graham          | 7-2        | Sal          | Frac       | --            | 20   | 3340        | Pool   | CT    |                    |
| 1646                     | Tiverton | S 15          | 690 NL 1370 WL  | NW Buckeye Oil Producing   | 2        | Pearl Korn           | 7-2        | Sal          | Frac       | 200           | 30   | 3603        | Pool   | CT    |                    |
| 1647                     | Pike     | S 23          | 457 NL 700 WL   | SW L. H. Service Pet. Co.  | 1        | R. & L. McKee        | 7-29       | Sal          | Frac       | --            | 200  | 3178        | Pool   | CT    |                    |
| 1648                     | Pike     | S 8           | 600 SL 300 EL   | SE L. H. Service Pet. Co.  | 1        | D. & B. Moore        | 8-28       | Sal          | Frac       | --            | 52   | 3263        | Pool   | CT    |                    |
| 1649                     | Monroe   | S 6           | 330 SL 680 WL   | SW F. D. Whittinghill, Jr. | 1        | Blue Crystal Mines   | 8-14       | Sal          | Frac       | 500           | 120  | 3610        | Pool   | CT    |                    |
| 1650                     | Monroe   | S 15          | 395 NL 1351 WL  | NE Ratliff Oil Prod.       | 1        | W. Conn & Pattengill |            |              |            |               |      |             | Pool   | CT    | Active             |
| 1651                     | Monroe   | S 6           | 230 SL 230 WL   | SE Ratliff Oil Prod.       | 2        | W. Conn & Pattengill |            |              |            |               |      |             | Pool   | CT    | Active             |
| 1652                     | Monroe   | S 6           | 230 SL 1600 WL  | SW Ratliff Oil Prod.       | 3        | W. Conn & Pattengill | 8-6        | Sal          | --         | --            | --   | 3536        | Pool   | CT    |                    |
| 1653                     | Monroe   | S 15          | 1341 NL 626 WL  | NW Ratliff Oil Prod.       | 5        | Mary McClain         | 6-23       | Sal          | Frac?      | --            | 25   | 3545        | Pool   | CT    |                    |
| 1654                     | Tiverton | S 11          | 812 NL 1650 EL  | NE Crest Oil Co.           | 2        | A. & M. Hoberg       | 8-15       | Sal          | Frac       | --            | 120  | 3466        | Pool   | CT    | Gas 20 MCF         |
| 1655                     | Tiverton | S 11          | 2360 NL 1660 EL | NE Crest Oil Co.           | 3        | A. & M. Hoberg       |            |              |            |               |      |             | Pool   | CT    | Active             |
| 1656                     | Clark    | S 17          | 1845 NL 52 WL   | SW Morgan Pet. Co.         | 1        | E. M. Waters         | 7-6        | Mbe          | Shot       | --            | 5    | 800         | Pool   | CT    |                    |
| 1657                     | Pike     | S 13          | 500 SL 576 EL   | SW S. W. Bardill           | 5        | Hattie Russell       | 6-17       | Sal          | Frac       | --            | 30   | 3160        | Pool   | CT    |                    |
| 1658                     | Pike     | S 13          | 88 SL 371 EL    | NE S. W. B. Corp.          | 1        | H. & B. Trego        | 7-25       | Sal          | Frac       | --            | 200  | 3300        | Pool   | CT    |                    |
| 1659                     | Pike     | S 12          | 340 SL 1924 EL  | SE L. H. Service Pet. Co.  | 1        | E. & G. Lake         | 10-8       | Sal          | Frac       | --            | 40   | 3306        | Pool   | CT    |                    |
| 1660                     | Pike     | S 12          | 514 SL 1590 EL  | NE L. H. Service Pet. Co.  | 1        | M. F. Shepherd       | 10-20      | Sal          | Frac       | 579           | 150  | 3259        | Pool   | CT    |                    |
| 1661                     | Pike     | S 12          | 899 NL 1090 EL  | SE L. H. Service Pet. Co.  | 1        | N. B. Baker          | 8-27       | Sal          | Frac       | --            | 100  | 3227        | Pool   | CT    |                    |
| 1662                     | Pike     | S 12          | 309 NL 1585 EL  | SE L. H. Service Pet. Co.  | 1        | L. & D. Baker        | 7-15       | Sal          | Frac       | --            | 140  | 3315        | Pool   | CT    |                    |
| 1663                     | Pike     | S 22          | 400 SL 600 EL   | NE Franklin Oil Co.        | 1        | James Billman        | 9-5        | Sal          | Frac       | --            | 20   | 3308        | Pool   | CT    |                    |
| 1664                     | Pike     | S 13          | 350 SL 700 EL   | NW W. E. Shrider           | 1        | E. & N. Gardner      | 8-13       | Sal          | Frac       | --            | 40   | 3268        | Pool   | CT    |                    |
| 1665                     | Clark    | S 17          | 1576 NL 55 WL   | SW Morgan Pet. Co.         | 2        | E. M. Waters         | 7-22       | Mbe          | Shot       | --            | 4    | 800         | Pool   | CT    |                    |
| 1666                     | Bedford  | S 6           | 1275 NL 560 WL  | NW Fred Cannan             | 1        | Leo Heffstetter      | 12-2       | Sal          | Frac       | --            | 20   | 3228        | Pool   | CT    |                    |
| 1667                     | Pike     | S 13          | 208 SL 1278 EL  | NE S.W.B. Corp.            | 1        | R. & F. Paugh        | 9-3        | Sal          | Frac       | --            | 75   | 3327        | Pool   | CT    |                    |
| 1668                     | Pike     | S 13          | 800 SL 1492 EL  | SE S.W.B. Corp.            | 2-A      | Hattie Russell       | 8-19       | Sal          | Frac       | --            | 40   | 3238        | Pool   | CT    | Replaces P-1621    |
| 1669                     | Pike     | S 23          | 359 SL 669 WL   | NW L. H. Service Pet. Co.  | 2        | R. & L. McKee        |            |              |            |               |      |             | Pool   | CT    | Active             |
| 1670                     | Pike     | S 10          | 850 NL 350 WL   | NE L. H. Service Pet. Co.  | 1        | C. E. Moore          |            |              |            |               |      |             | Pool   | CT    | Active             |
| 1671                     | Pike     | S 10          | 1128 SL 230 WL  | SW L. H. Service Pet. Co.  | 1        | G. & E. Graham       | 8-22       | Sal          | Frac       | --            | 25   | 3368        | Pool   | CT    |                    |
| 1672                     | Pike     | S 9           | 726 SL 315 EL   | SE L. H. Service Pet. Co.  | 1        | Clyde Graham         | 8-18       | Sal          | Frac       | --            | 30   | 3378        | Pool   | CT    |                    |
| 1673                     | Pike     | S 1           | 776 SL 684 WL   | SW L. H. Service Pet. Co.  | 1        | L. & F. Rich         |            |              |            |               |      |             | Pool   | CT    | Replaced by P-1714 |
| 1674                     | Pike     | S 9           | 812 SL 156 WL   | SE L. H. Service Pet. Co.  | 1        | F. & L. Landaker     |            |              |            |               |      |             | Pool   | CT    | Active             |
| 1675                     | Clark    | S 16          | 1999 NL 64 EL   | SE Morgan Pet. Co.         | 1        | Archie Williamson    | 9-2        | Mbe          | Shot       | --            | 5    | 800         | Pool   | CT    |                    |
| 1676                     | Pike     | S 12          | 791 SL 288 WL   | NW S. W. Bardill           | 2        | H. & B. Trego        | 12-12      | Sal          | Frac       | --            | 80   | 3307        | Pool   | CT    |                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number           | Township   | Land Division | Location        |        | Operator                 | Well No. | Lease                     | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |       | Total Depth  | Class. | Tools | Remarks     |
|-------------------------|------------|---------------|-----------------|--------|--------------------------|----------|---------------------------|------------|--------------|------------|---------------|-------|--------------|--------|-------|-------------|
|                         |            |               |                 |        |                          |          |                           |            |              |            | MCFGPD        | BOPD  |              |        |       |             |
| COSHOCTON COUNTY (con.) |            |               |                 |        |                          |          |                           |            |              |            |               |       |              |        |       |             |
| 1677                    | Pike       | S 13          | 430 SL 583 WL   | NE     | S. W. B. Corp.           | 1        | Rebecca Heft              | 10-23      | Sal          | Frac       | 119           | 125   | 3320         | Pool   | CT    | OWWO Active |
| 1678                    | Pike       | S 13          | 820 NL 230 WL   | SE     | S. W. B. Corp.           | 1        | H. B. Wilson              | 9-12       | Sal          | Frac       | --            | 85    | 3241         | Pool   | CT    |             |
| 1679                    | Newcastle  | L 26 (1Q)     | 800 NL 2060 EL  |        | Ralph Hamblin            | 1        | MWCD                      |            |              |            |               |       |              | Pool   | CT    |             |
| 1680                    | Tiverton   | S 11          | 330 NL 330 EL   | SW     | Crest Oil Co.            | 1        | P. & M. Anderson          |            |              |            |               |       |              | Pool   | CT    |             |
| 1681                    | Pike       | S 12          | 450 SL 1348 WL  | NW     | S. W. B. Corp.           | 3        | H. & B. Trego             | 10-7       | Sal          | Frac       | --            | 70    | 3288         | Pool   | CT    |             |
| 1682                    | Tiverton   | S 11          | 230 NL 1203 WL  | NE     | Crest Oil Co.            | 4        | A. & M. Hoberg            | 10-21      | Sal          | Frac       | 100           | 4     | 3496         | Pool   | CT    | OWWO Active |
| 1683                    | Pike       | S 13          | 300 SL 990 WL   | NW     | Lincoln Oil Well Service | 1        | William Fortney           | 10-5       | Sal          | Frac       | --            | 125   | 3249         | Pool   | CT    |             |
| 1684                    | Clark      | S 16          | 184 SL 59 EL    | SE     | Morgan Pet. Co.          | 2        | A. Williamson             | 10-1       | Mbe          | Shot       | --            | 4     | 800          | Pool   | CT    |             |
| 1685                    | Tiverton   | S 6           | 654 NL 485 EL   | NE     | Clinton Oil Co.          | 1        | Beatrice Meeks            | 10-24      | Sal          | Frac       | --            | 75    | 3308         | Pool   | CT    |             |
| 1686                    | Pike       | S 23          | 1150 NL 522 WL  | SE     | S. W. B. Corp.           | 3        | F. & M. Wolford           | 12-2       | Sal          | Frac       | --            | 40    | 3042         | Pool   | CT    |             |
| 1687                    | Pike       | S 12          | 500 NL 317 EL   | SW     | S. W. B. Corp.           | 1        | E. C. Norris              | 11-20      | Sal          | Frac       | --            | 70    | 3209         | Pool   | CT    | Active      |
| 1688                    | Pike       | S 20          | 660 NL 660 EL   | SW     | Franklin Oil Co.         | 4        | G. E. Lake                | 11-19      | Sal          | Frac       | --            | 20    | 3394         | Pool   | CT    |             |
| 1689                    | Perry      | S 17          | 1460 NL 1050 WL | NW     | C. E. Skiles, Inc.       | 1        | K. W. Martin              |            |              |            |               |       |              | Pool   | CT    |             |
| 1690                    | Tiverton   | S 21          | 1101 SL 725 WL  | NW     | Dalton & Hanna           | 3        | E. & G. Gamertsfelder     | 11-3       | Sal          | Frac       | 345           | --    | 3312         | Pool   | CT    |             |
| 1691                    | Washington | L 1           | 254 NL 659 EL   |        | Bech Oil Co.             | 1        | Raymond Moore             | 11-28      | Sal          | Frac       | 267           | --    | 3434         | Out    | CT    |             |
| 1692                    | Clark      | S 24          | 100 NL 270 WL   | NW     | Morgan Pet. Co.          | 1        | W. H. Stover              | 11-9       | Mbe          | Shot       | --            | 5     | 800          | Pool   | CT    | Active      |
| 1693                    | Tiverton   | S 6           | 710 NL 550 EL   | SE     | John C. Mason            | 1        | A. A. Jones               | 12-9       | Sal          | --         | --            | --    | 3305         | Pool   | CT    |             |
| 1694                    | Tiverton   | S 6           | 700 SL 630 EL   | SE     | John C. Mason            | 1        | L. Payne                  |            |              |            |               |       |              | Pool   | CT    |             |
| 1695                    | Perry      | S 10          | 1225 NL 1543 EL | NE     | Reliance Oil Corp.       | 1        | H. A. Anderson            | 12-26      | Sal          | Frac       | 150           | 20    | 3185         | Pool   | CT    |             |
| 1696                    | Clark      | S 24          | 390 NL 165 WL   | NW     | Morgan Pet. Co.          | 2        | W. H. Stover              |            |              |            |               |       |              | Pool   | CT    |             |
| 1697                    | Clark      | (1Q)          | 4091 NL 2054 WL | (1Q)   | Oxford Oil (Pure)        | 3        | H. W. Mohler              |            |              |            |               |       |              | Pool   | CT    | OW Abd.     |
| 1698                    | Tiverton   | S 7           | 550 NL 660 WL   | SW     | John C. Mason            | 3-A      | C. Holt                   |            |              |            |               |       |              | Pool   | CT    | Active      |
| SUMMARY                 |            |               | GAS-3           | OIL-55 | COMBINATION-14           |          | DRY-5                     | TOTAL-77   |              |            | 5,625         | 4,024 | 238,182 FEET |        |       |             |
| OLD WELLS WORKED OVER   |            |               |                 |        |                          |          |                           |            |              |            |               |       |              |        |       |             |
| 110                     | Pike       | S 18          | 357 NL 435 WL   | NW     | S. W. Bardill (Pure)     | 1-A      | Fee (W. H. Ashcraft)      | 1944       | Sal          | --         | --            | --    | 3320         | Pool   | CT    | OWWO Abd.   |
| 114-A                   | Newcastle  | L 26          | 3740 NL 220 EL  | Twp.   | Ralph Hamblin (Preston)  | 1        | M. W. C. D. (J. & P. Fry) | 3-26       | Sal          | Nat        | --            | 10    | 3096         | Pool   | CT    |             |
|                         |            |               |                 |        |                          |          |                           | 11-?       | Sal          | ?          | --            | 30    | 3096         |        |       |             |
| 1394                    | Tiverton   | S 10          | 341 SL 337 WL   | NW     | Union Oil Co.            | 1        | R. A. Fortune             | 1959       | Sal          | Nat        | 750           | --    | 3253         | Pool   | CT    |             |
| SUMMARY                 |            |               | WORKED OVER-3   |        |                          |          |                           | 2-4        | Snb          | Acid       | ?             | --    | 2634         |        |       |             |
| OLD WELLS ABANDONED     |            |               |                 |        |                          |          |                           |            |              |            |               |       |              |        |       |             |
| 18                      | Pike       | S 14          | 2350 NL 1070 WL | NW     | S. W. Bardill (Pure)     | 2        | Newton Ashcraft           | 1939       | Sal          | ?          | --            | ?     | 3184         | Pool   | CT    | Abd. 5-7    |
| 28                      | Tiverton   | S 9           | 900 SL 660 WL   | SW     | Ohio Fuel Gas Co.        | 1        | Carl Humphrey             | 1940       | Sal          | ?          | ?             | --    | 3378         | Pool   | CT    | Abd. 6-4    |
| 71                      | Pike       | S 18          | 600 SL 400 EL   | SE     | S. W. Bardill (Pure)     | 2        | J. W. McKee               | 1943       | Sal          | Shot       | --            | 80    | 3274         | Pool   | CT    | Abd. 10-27  |
| 82                      | Pike       | S 3           | 360 NL 400 WL   | SE     | Allen Willey             | 1        | Raymond Mikesall          | 1943       | Sal          | Shot       | --            | 40    | 3253         | Pool   | CT    | Abd. 12-30  |
| 106-A-10                | Pike       | S 18          | 400 NL 300 EL   | SE     | S. W. Bardill (Pure)     | 10       | W. H. Ashcraft            | 1919       | Sal          | ?          | --            | ?     | 3204         | Pool   | CT    | Abd. 7-28   |
| 106-A-15                | Pike       | S 18          |                 |        | S. W. Bardill (Pure)     | 15       | W. H. Ashcraft            | ?          | Sal          | ?          | ?             | ?     |              | Pool   | CT    | Abd. 9-24   |
| 117                     | Pike       | S 4           | 330 NL 1320 EL  | NE     | Evert Bucy               | 1        | Howard Mizer              | 1944       | Sal          | Shot       | --            | 75    | 3058         | Pool   | CT    | Abd. 10-7   |
| 120                     | Perry      | S 10          | 1540 NL 2440 EL | NE     | Reliance Oil (Pure)      | 1        | A. S. Cullison            | 1945       | Sal          | Nat        | --            | 2     | 3168         | Pool   | CT    | Abd. 4-11   |
| 120-A-5                 | Pike       | S 25          | 2320 SL 950 EL  | SE     | Pure Oil Co.             | 5        | F. A. Moore               | 1921       | Sal          | ?          | --            | 55    | 3097         | Pool   | CT    | Abd. 4-24   |
| 131-A-3                 | Tiverton   | S 21          | 490 SL 160 EL   | SW     | Preston Oil Co.          | 3        | L. & R. Reese             | 1918       | Sal          | Shot       | 213           | ?     | 3161         | Pool   | CT    | Abd. 1-24   |



## LIST OF OPERATIONS DURING 1964

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SUMMARY OF OIL AND GAS ACTIVITY IN 1964

| Permit Number           | Township   | Land Division | Location              | Operator                 | Well No. | Lease               | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks    |
|-------------------------|------------|---------------|-----------------------|--------------------------|----------|---------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|------------|
|                         |            |               |                       |                          |          |                     |            |              |            | MCFGPD        | BOPD |             |        |       |            |
| COSHOCTON COUNTY (con.) |            |               |                       |                          |          |                     |            |              |            |               |      |             |        |       |            |
| 178                     | Pike       | S 14          | 1360 SL 330 EL SE     | S. W. Bardill (Pure)     | 18       | W. H. Ashcraft      | 1945       | Sal          | Shot       | --            | 68   | 3291        | Pool   | CT    | Abd. 3-2   |
| 179                     | Perry      | S 10          | 2430 SL 2600 EL SE    | Reliance Oil (Pure)      | 1        | G. M. Hofstatter    | 1945       | Sal          | ?          | ?             | --   | 3213        | Pool   | CT    | Abd. 6-25  |
| 201                     | Pike       | S 14          | 450 NL 1000 EL SE     | S. W. Bardill (Pure)     | 19       | W. H. Ashcraft      | 1946       | Sal          | ?          | --            | ?    | 3337        | Pool   | CT    | Abd. 2-19  |
| 205                     | Pike       | S 18          | 1470 SL 130 EL SE     | S. W. Bardill (Pure)     | 2        | L. Ashcraft (McKee) | 1946       | Sal          | ?          | --            | ?    | 3267        | Pool   | CT    | Abd. 4-2   |
| 295                     | Newcastle  | (3Q)          | 6375 SL 10000 WL Twp. | Reliance Oil (Shrider)   | 2        | Mira Richard        | 1950       | Sal          | Shot       | --            | 130  | 3309        | Pool   | CT    | Abd. 1-20  |
| 344                     | Newcastle  | (3Q)          | 7150 SL 10000 WL Twp. | W. E. Shrider            | 3        | Harry Ringwalt      | 1951       | Sal          | ?          | --            | ?    | 3291        | Pool   | CT    | Abd. 11-21 |
| 355                     | Newcastle  | S 23 (3Q)     | 3570 SL 650 EL        | Preston Oil Co.          | 1        | R. J. Daliere       | 1951       | Sal          | ?          | --            | ?    | 3369        | Pool   | CT    | Abd. 12-16 |
| 363                     | Newcastle  | (4Q)          | 5370 SL 2920 EL       | Reliance Oil (Pure)      | 4        | R. J. Daliere       | 1951       | Sal          | ?          | --            | ?    | 3379        | Pool   | CT    | Abd. 3-27  |
| 423                     | Newcastle  | S 17          | 360 SL 330 WL SE      | Pure Oil Co.             | 1        | David Busenburg     | 1952       | Sal          | Shot       | --            | 23   | 3423        | Pool   | CT    | Abd. 7-24  |
| 425                     | Perry      | S 23          | 150 SL 2210 WL SW     | Allen Willey             | 2        | J. W. Bradford      | 1952       | Sal          | Shot       | 400           | 50   | 3082        | Pool   | CT    | Abd. 11-3  |
| 441                     | Clark      | L 34 (2Q)     | 1215 NL 1569 EL       | National G. & O. Corp.   | 1        | Archie Williamson   | 1952       | Sal          | Shot       | 230           | 12   | 3386        | Pool   | CT    | Abd. 7-23  |
| 453                     | Newcastle  | (3Q)          | 1650 SL 1780 WL Twp.  | Preston Oil Co.          | 2        | B. & A. Beatty      | 1952       | Sal          | Shot       | --            | 15   | 3207        | Pool   | CT    | Abd. 2-12  |
| 482                     | Newcastle  | (3Q)          | 2200 SL 3710 WL Twp.  | Reliance Oil (Shrider)   | 1        | T. J. Clark         | 1953       | Sal          | Shot       | --            | 32   | 3224        | Pool   | CT    | Abd. 4-20  |
| 486                     | Newcastle  | L 10 (1Q)     | 370 NL 330 EL Farm    | Preston Oil Co.          | 3        | N. L. McFarland     | 1953       | Sal          | Frac       | 1000          | 184  | 3161        | Pool   | CT    | Abd. 12-22 |
| 531                     | Newcastle  | S 12          | 1980 SL 1150 EL SE    | Pure Oil Co.             | 2        | E. M. Reese "B"     | 1953       | Sal          | Frac       | --            | 48   | 3406        | Pool   | CT    | Abd. 7-18  |
| 566                     | Pike       | S 4           | 2124 NL 317 WL NE     | Evert Bucy               | 5        | Howard Mizer        | 1953       | Sal          | Frac       | 139           | 385  | 3114        | Pool   | CT    | Abd. 9-29  |
| 567                     | Newcastle  | (3Q)          | 4980 SL 5280 WL Twp.  | Piedmont Oil (Shrider)   | 2        | William Frazee      | 1953       | Sal          | Frac       | --            | 75   | 3260        | Pool   | CT    | Abd. 3-25  |
| 589                     | Pike       | S 4           | 440 SL 2180 WL NE     | Evert Bucy               | 7        | Howard Mizer        | 1954       | Sal          | Frac       | --            | 113  | 3205        | Pool   | CT    | Abd. 5-19  |
| 638                     | Pike       | S 4           | 767 SL 670 EL NE      | Allen Willey             | 5        | J. W. Bradford      | 1955       | Sal          | Frac       | 59            | 75   | 3253        | Pool   | CT    | Abd. 2-14  |
| 641                     | Pike       | S 4           | 110 NL 930 WL SE      | Evert Bucy               | 9        | Howard Mizer        | 1955       | Sal          | Frac       | 94            | 55   | 3099        | Pool   | CT    | Abd. 9-18  |
| 642                     | Bethlehem  | (2Q)          | 2018 NL 3919 WL Twp.  | National G. & O. Corp.   | 7        | C. G. Conrad        | 1954       | Sal          | Frac       | --            | 63   | 3546        | Pool   | CT    | Abd. 2-24  |
| 653                     | Clark      | L 27 (2Q)     | 320 NL 465 WL         | W. H. Patten Dlg.        | 1        | Pearl Layland       | 1954       | Sal          | Frac       | 265           | 100  | 3401        | Pool   | CT    | Abd. 11-12 |
| 665                     | Newcastle  | S 13          | 330 NL 500 WL SE      | Pure Oil Co.             | 2        | David Busenburg     | 1954       | Sal          | Frac       | --            | 341  | 3164        | Pool   | CT    | Abd. 8-15  |
| 703                     | Newcastle  | L 7 (1Q)      | 1050 SL 330 EL        | Preston Oil Co.          | 3        | M. W. C. D.         | 1955       | Sal          | Frac       | --            | 60   | 3299        | Pool   | CT    | Abd. 2-24  |
| 710                     | Clark      | L 38          | 500 NL 450 EL         | Natol Pet. Corp.         | 1        | Lillian Baker       | 1955       | Sal          | Frac       | --            | 115  | 3537        | Pool   | CT    | Abd. 7-1   |
| 728                     | Newcastle  | S 13          | 995 NL 330 WL SE      | Pure Oil Co.             | 3        | David Busenburg     | 1955       | Sal          | Frac       | --            | 120  | 3325        | Pool   | CT    | Abd. 7-24  |
| 730                     | Perry      | S 22          | 847 SL 330 WL SW      | Allen Willey             | 1        | Herbert Anderson    | 1955       | Sal          | Frac       | --            | 40   | 3151        | Pool   | CT    | Abd. 12-7  |
| 753                     | Pike       | S 3           | 1110 SL 1180 WL NE    | Oxford Oil Co. (Pure)    | 1        | F. H. Wintermute    | 1955       | Sal          | Frac       | --            | 185  | 3233        | Pool   | CT    | Abd. 4-16  |
| 822                     | Pike       | S 3           | 330 NL 1126 WL NE     | Oxford Oil Co. (Pure)    | 2        | F. H. Wintermute    | 1956       | Sal          | Frac       | 200           | 25   | 3349        | Pool   | CT    | Abd. 4-6   |
| 838                     | Monroe     | S 1           | 1135 SL 330 EL SE     | Natol Pet. Corp.         | 1        | Kenneth Moore       | 1956       | Sal          | Frac       | --            | 50   | 3547        | Pool   | CT    | Abd. 5-26  |
| 869                     | Clark      | S 22 (4Q)     | 500 NL 600 WL SE      | Natol Pet. Corp.         | 1        | Floyd Lowe          | 1956       | Sal          | Frac       | --            | ?    | 3770        | Pool   | CT    | Abd. 7-20  |
| 895                     | Monroe     | S 10          | 499 SL 639 EL W/2 NW  | Natol Pet. Corp.         | 1        | Dewey Reiss         | 1956       | Sal          | Frac       | --            | 80   | 3312        | Pool   | CT    | Abd. 3-17  |
| 912                     | Monroe     | S 10          | 1440 NL 920 WL NW     | Natol Pet. Corp.         | 2        | Dewey Reiss         | 1956       | Sal          | Frac       | --            | 65   | 3309        | Pool   | CT    | Abd. 3-3   |
| 938                     | Pike       | S 2           | 570 SL 330 WL NW      | Oxford Oil Co. (Pure)    | 1        | C. E. Miller        | 1956       | Sal          | Frac       | --            | 32   | 3337        | Pool   | CT    | Abd. 4-25  |
| 952                     | Jefferson  | S 5           | 1000 SL 1030 EL SE    | W. E. Shrider            | 6        | W. L. Mullett       | 1956       | Sal          | Frac       | --            | 50   | 3348        | Pool   | CT    | Abd. 6-5   |
| 995                     | Monroe     | S 7 (1Q)      | 2000 NL 870 EL NE     | Deeka Pipe (Ditch-Hanna) | 2        | I. H. Kasner        | 1957       | Sal          | Frac       | 297           | 50   | 3347        | Pool   | CT    | Abd. 4-1   |
| 1003                    | Washington | L 29          | 550 NL 988 WL         | Ohio Fuel Gas Co.        | 2        | L. M. Boal          | 1957       | Sal          | Frac       | 1500          | --   | 3320        | Pool   | CT    | Abd. 6-1   |
| 1042                    | Monroe     | S 7           | 279 SL 335 EL NW      | Deeka Pipe (Ditch-Hanna) | 1        | C. H. Stricker      | 1957       | Sal          | Frac       | 536           | 50   | 3501        | Pool   | CT    | Abd. 4-10  |
| 1051                    | Monroe     | S 10          | 210 NL 1850 EL NE     | Natol Pet. Corp.         | 6        | Kenneth Moore       | 1957       | Sal          | Frac       | --            | 149  | 3416        | Pool   | CT    | Abd. 6-22  |
| 1057                    | Tiverton   | S 21          | 342 NL 969 EL SE      | Wood Rider, Inc.         | 1        | William Kanuckle    | ?          | Sal          | Frac       | 250           | 100  | 3302        | Pool   | CT    | Abd. 5-27  |
| 1103                    | Newcastle  | (3Q)          | 6650 SL 3100 WL Twp.  | Reliance Oil (Piedmont)  | 1        | T. J. Clark         | 1958       | Sal          | Frac       | --            | 188  | 3190        | Pool   | CT    | Abd. 6-17  |
| 1136                    | Newcastle  | (3Q)          | 2880 SL 3650 WL Twp.  | Piedmont Pet. Corp.      | 3        | T. J. Clark         | 1958       | Sal          | Frac       | --            | 240  | 3182        | Pool   | CT    | Abd. 3-17  |
| 1145                    | Perry      | S 8           | 330 SL 330 EL SW      | V. J. Wilson             | 2        | Fred Shuy           | 1958       | Sal          | Frac       | --            | 50   | 3296        | Pool   | CT    | Abd. 3-25  |
| 1192                    | Monroe     | S 3           | 1100 NL 1900 EL NE    | Natol Pet. Corp.         | 1        | P. & C. Johnson     | 1958       | Sal          | Frac       | 500           | 50   | 3532        | Pool   | CT    | Abd. 6-15  |
| 1195                    | Monroe     | S 4           | 330 SL 330 WL SE      | Natol Pet. Corp.         | 1        | G. E. Selders       | 1958       | Sal          | Frac       | 200           | 50   | 3347        | Pool   | CT    | Abd. 4-29  |

## LIST OF OPERATIONS DURING 1964

| Permit Number           | Township   | Land Division | Location        |                | Operator              | Well No.          | Lease             | Date Comp.      | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks    |                    |
|-------------------------|------------|---------------|-----------------|----------------|-----------------------|-------------------|-------------------|-----------------|--------------|------------|---------------|------|-------------|--------|-------|------------|--------------------|
|                         |            |               |                 |                |                       |                   |                   |                 |              |            | MCFGPD        | BOPD |             |        |       |            |                    |
| COSHOCTON COUNTY (con.) |            |               |                 |                |                       |                   |                   |                 |              |            |               |      |             |        |       |            |                    |
| 1200                    | Washington | S 9           | 660 SL 200 WL   | SE             | Ohio Fuel Gas Co.     | 1                 | F. A. Wright      | 1958            | Sal          | Frac       | ?             | --   | 3486        | Pool   | CT    | Abd. 1-28  |                    |
| 1204                    | Perry      | S 4           | 400 SL 400 EL   | SE             | Preston Oil Co.       | 1                 | Walter Clark      | 1958            | Sal          | Frac       | 67            | 128  | 3347        | Pool   | CT    | Abd. 12-3  |                    |
| 1226                    | Tiverton   | L 16 (3Q)     | 200 SL 1100 WL  |                | Reliance Oil Corp.    | 2                 | Louis Hole        | 1958            | Sal          | Frac       | 4000          | --   | 2952        | Pool   | CT    | Abd. 12-1  |                    |
| 1228                    | Monroe     |               | S 9             | 330 SL 1000 WL | NE                    | Dee Ka Pipe Co.   | 1                 | Harry Nicholl   | 1958         | Sal        | Frac          | 188  | 100         | 3495   | Pool  | CT         | Abd. 1-2           |
| 1231                    | Monroe     |               | S 3             | 330 SL 330 EL  | NE                    | Natol Pet. Corp.  | 2                 | C. F. Schonauer | 1958         | Sal        | Frac          | 375  | 275         | 3506   | Pool  | CT         | Abd. 5-15          |
| 1239                    | Washington |               | S 15            | 1000 SL 958 EL | NW                    | Ohio Fuel Gas Co. | 1                 | Carl Melrose    | 1958         | Sal        | Frac          | 450  | --          | 3414   | Pool  | CT         | Abd. 2-10          |
| 1275                    | White Eyes | S 17          | 430 SL 220 WL   | SW             | Ferguson & McCullough | 1                 | Loren Wolfe       | 1959            | Mbe          | Nat        | 83            | --   | 840         | Pool   | CT    | Abd. 10-26 |                    |
| 1276                    | Monroe     | S 10          | 990 NL 660 WL   | NE             | Natol Pet. Corp.      | 7                 | Kenneth Moore     | 1959            | Sal          | Frac       | --            | 250  | 3323        | Pool   | CT    | Abd. 6-4   |                    |
| 1285                    | Monroe     | S 4           | 1060 NL 330 WL  | SE             | Natol Pet. Corp.      | 3                 | G. E. Solders     | 1959            | Sal          | Frac       | --            | 130  | 3402        | Pool   | CT    | Abd. 4-16  |                    |
| 1304                    | White Eyes | S 16          | 660 NL 660 WL   | NE             | Ohio Fuel Gas Co.     | 1                 | W. T. Adams       | 1959            | Mbe          | Shot       | 168           | --   | 1091        | Pool   | CT    | Abd. 10-5  |                    |
| 1319                    | White Eyes | S 15          | 550 SL 660 WL   | SE             | Ohio Fuel Gas Co.     | 1                 | E. A. Maurer      | 1959            | Mbe          | Shot       | 145           | --   | 1007        | Pool   | CT    | Abd. 9-30  |                    |
| 1320                    | Tiverton   | L 32 (3Q)     | 350 SL 300 EL   |                | R. B. Weed & Assoc.   | 2                 | Minnie Frazee     | 1959            | Sal          | Frac       | 16            | 40   | 3219        | Pool   | CT    | Abd. 3-30  |                    |
| 1340                    | White Eyes |               | S 17            | 425 SL 653 WL  | SW                    | Ohio Fuel Gas Co. | 1                 | Harmon-Holder   | 1959         | Mbe        | Shot          | 325  | --          | 1010   | Pool  | CT         | Abd. 10-8          |
| 1347                    | Perry      | S 13          | 1232 NL 400 EL  | NW             | Clinton Oil Co.       | 2                 | W. K. Holsky      | 1959            | Sal          | Frac       | --            | 20   | 3276        | Pool   | CT    | Abd. 1-8   |                    |
| 1348                    | Pike       | S 23          | 330 SL 330 EL   | SE             | W. H. Bear, Inc.      | 1                 | Lawrence McKee    | 1959            | Sal          | Frac       | 450           | 100  | 3271        | Pool   | CT    | Abd. 12-1  |                    |
| 1358                    | White Eyes | S 16          | 360 NL 775 EL   | SE             | Ferguson & McCullough | 3                 | Loren Wolfe       | 1959            | Mbe          | ?          | 120           | --   | 977         | Pool   | CT    | Abd. 10-21 |                    |
| 1363                    | Clark      | S 17          | 541 SL 616 EL   | NE             | Natol Pet. Corp.      | 1                 | Maxine Young      | 1959            | Sal          | Frac       | 103           | 30   | 3434        | Pool   | CT    | Abd. 7-17  |                    |
| 1414                    | Clark      | S 17          | 525 SL 2000 EL  | NE             | Natol Pet. Corp.      | 1                 | Russell Lone      | 1960            | Sal          | Frac       | 758           | 10   | 3401        | Pool   | CT    | Abd. 10-28 |                    |
| 1436                    | Perry      | S 13          | 400 NL 410 WL   | NW             | Clinton Oil Co.       | 3                 | W. K. Holsky      | 1960            | Sal          | Frac       | --            | 35   | 3218        | Pool   | CT    | Abd. 12-29 |                    |
| 1466                    | Clark      | S 24          | 2170 NL 2030 EL | NE             | Natol Pet. Corp.      | 2                 | Virginia McNeal   | 1961            | Sal          | Frac       | 500           | 24   | 3450        | Pool   | CT    | Abd. 7-9   |                    |
| 1697                    | Clark      | (1Q)          | 4091 NE 2054 WL | 1Q             | Oxford Oil (Pure)     | 3                 | H. W. Mohler      | 1956            | Sal          | Frac       | 20            | 13   | 3474        | Pool   | CT    | Abd. ?     |                    |
|                         |            | SUMMARY       | ABANDONED-76    |                |                       |                   |                   |                 |              |            |               |      |             |        |       |            |                    |
| CRAWFORD COUNTY         |            |               |                 |                |                       |                   |                   |                 |              |            |               |      |             |        |       |            |                    |
| 7                       | Vernon     | S 3           | 660 SL 660 EL   | NE             | Haynes O. & G. Enter. | 1                 | Bryan Crum        | 5-23            | €co          | --         | --            | --   | 3826        | FWC    | CT    | Canceled   |                    |
| 8                       | Vernon     | S 33          | 330 NL 330 WL   | SE             | Sun Oil Co.           | 1                 | C. Krichbaum      | 2-20            | €cr          | --         | --            | --   | 3565        | FWC    | RT    |            |                    |
| 9                       | Whetstone  | S 27          | 200 SL 200 WL   | SW             | Halcar Dlg. Co.       | 1                 | Iver Tupps        |                 |              |            |               |      |             | FWC    | RT    |            |                    |
| 10                      | Jefferson  | S 22          | 320 NL 1345 EL  | SE             | Don Baldwin Co.       | 1                 | R. & E. Sherer    | 3-6             | €cr          | --         | --            | --   | 3380        | FWC    | RT    |            |                    |
| 11                      | Bucyrus    | S 19          | 660 SL 660 EL   | NW             | Berman Shafer         | 1                 | R. & M. Miller    | 4-12            | €cr          | --         | --            | --   | 2660        | FWC    | CT    |            |                    |
| 12                      | Liberty    | S 15          | 2570 SL 2000 WL | SW             | J. W. Vandever        | 1                 | G. & M. Brause    | 3-19            | €cr          | --         | --            | --   | 3150        | FWC    | RT    | Canceled   |                    |
| 13                      | Polk       | S 35          | 300 NL 1645 WL  | SW             | Collin Oil Co.        | 1                 | Lester Ross       | 8-25            | €cr          | --         | --            | --   | 3343        | FWC    | CT    |            |                    |
| 14                      | Polk       | S 27-W        | 700 SL 1800 WL  | SW             | R. V. Swick Co.       | 1                 | W. R. Fisher      |                 |              |            |               |      |             | FWC    | CT    |            |                    |
| 15                      | Whetstone  | S 33          | 330 SL 1320 EL  | NW             | J. W. Vandever        | 1                 | M. E. Kuehnle     | 4-26            | €cr          | --         | --            | --   | 3050        | FWC    | RT    |            |                    |
| 16                      | Sandusky   | S 22          | 150 SL 330 EL   | NW             | J. W. Vandever        | 1                 | G. & V. Ruth      | 4-6             | €cr          | --         | --            | --   | 3275        | FWC    | RT    |            |                    |
| 17                      | Whetstone  | S 27          | 330 SL 330 WL   | SW             | Halcar Dlg. Co.       | 1                 | L. C. Tupps       | 7-3             | O?           | --         | --            | --   | --          | FWC    | RT    |            | Lost hole 2932 ft. |
| 18                      | Liberty    | S 19          | 330 NL 330 WL   | NE             | J. W. Vandever        | 1                 | R. S. Crall       | 6-24            | €cr          | --         | --            | --   | 2987        | FWC    | CT    |            |                    |
| 19                      | Whetstone  | S 22          | 330 SL 330 WL   | NW             | J. W. Vandever        | 1                 | R. S. Crall       | 6-12            | €cr          | --         | --            | --   | 3100        | FWC    | CT    |            |                    |
| 20                      | Dallas     | S 7           | 500 SL 30 EL    | SW             | H. B. Ludwick         | 1                 | M. & H. Ludwick   | 6-5             | €cr          | --         | --            | --   | 2631        | FWC    | CT    |            |                    |
| 21                      | Dallas     | S 35          | 1012 SL 330 EL  | SW             | G. C. Schoonmaker     | 1                 | Ruffner-Underwood | 9-12            | €cr          | --         | --            | --   | 2570        | FWC    | CT    |            |                    |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township    | Land Division | Location                                    |       | Operator                 | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                      |
|------------------------|-------------|---------------|---|-------|--------------------------|----------|--------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|------------------------------|
|                        |             |               |   |       |                          |          |                    |            |              |            | MCFGPD        | BOPD |             |        |       |                              |
| CRAWFORD COUNTY (con.) |             |               |   |       |                          |          |                    |            |              |            |               |      |             |        |       |                              |
| 22                     | Bucyrus     | S 25          | 803 SL 504 EL                               | SE    | Victor Banister          | 1        | J. C. Linn         | 12-31      | €cr          | --         | --            | --   | 2600        | FWC    | CT    | Abd. Loc.                    |
| 23                     | Polk        | S 4           | 330 SL 990 EL                               | SE    | Michael T. Cowen         | 1        | G. A. Stevens      | 7-7        | €cr          | --         | --            | --   | 3758        | FWC    | RT    |                              |
| 24                     | Liberty     | S 25          | 330 SL 1440 WL                              | SW    | Gene Warner              | 1        | W. Inscho          | 7-19       | €cr          | --         | --            | --   | 3193        | FWC    | RT    |                              |
| 25                     | Auburn      | S 34          | 237 SL 1842 EL                              | SE    | Haynes O. & G. Enter.    | 1-H      | Bryan Crum         | 7-6        | €cr          | --         | --            | --   | 3550        | FWC    | CT    |                              |
| 26                     | Polk        | S 26          | 1546 NL 1022 WL                             | NE    | Cheswell Oil, Inc.       | 1        | S. S. Laughbaum    |            |              |            |               |      |             | FWC    | RT    |                              |
| 27                     | Jefferson   | S 23          | 230 SL 550 EL                               | NW    | Cheswell Oil, Inc.       | 1        | R. & M. Eichhorn   | 7-27       | €cr          | --         | --            | --   | 3388        | FWC    | RT    |                              |
| 28                     | Polk        | S 4           | 676 NL 333 EL                               | NE    | Bauer Bros.              | 1        | A. & H. Bauer      | 9-5        | €cr          | --         | --            | --   | 3629        | FWC    | CT    | Lost hole 1180 ft.<br>Active |
| 29                     | Whetstone   | S 27          | 230 SL 1081 EL                              | NE    | C. J. Rider              | 1        | Edward Perry       | 8-25       | €cr          | --         | --            | --   | 3071        | FWC    | RT    |                              |
| 30                     | Polk        | S 26          | 880 SL 1200 WL                              | SW    | Sun Oil Co.              | 1        | V. I. Ricker       | 7-31       | €cr          | --         | --            | --   | 3375        | FWC    | RT    |                              |
| 31                     | Dallas      | S 7           | 480 NL 2380 EL                              | SE    | Scharer & Ludwick        | 2        | H. B. Ludwick      | 8-21       | €cr          | --         | --            | --   | 2671        | FWC    | CT    |                              |
| 32                     | Jefferson   | S 18          | 2050 NL 550 WL                              | NW    | Harding Bros. O. & G.    | 1        | Crawford Nursery   | 8-17       | €cr          | --         | --            | --   | 3334        | FWC    | CT    |                              |
| 33                     | Holmes      | S 10          | 330 NL 330 WL                               | NW    | Perry Fulk, Sr.          | 1        | C. R. Haycock      | 9-26       | Oqu?         | --         | --            | --   | --          | FWC    | RT    |                              |
| 34                     | Jackson     | S 16          | 790 SL 1080 EL                              | SE    | Arthur A. Keckler        | 1        | J. & E. Garrett    |            |              |            |               |      |             | FWC    | CT    | Active                       |
| 35                     | Sandusky    | S 13          | 396 NL 275 WL                               | SW    | Mt. Carmel Dlg. Co.      | 1        | George Eckstein    | 10-10      | €cr          | --         | --            | --   | 3360        | FWC    | RT    |                              |
| 36                     | Polk        | S 2           | 1320 SL 1090 WL                             | SE    | POC Oil Corp.            | 1        | L. & M. Gledhill   |            |              |            |               |      |             | FWC    | RT    |                              |
| 37                     | Polk        | S 2           | 230 NL 1080 WL                              | SW    | POC Oil Corp.            | 1-B      | L. & M. Gledhill   |            |              |            |               |      |             | FWC    | RT    |                              |
| 38                     | Polk        | S 2           | 330 SL 1540 WL                              | SW    | POC Oil Corp.            | 1-C      | L. & M. Gledhill   |            |              |            |               |      |             | FWC    | RT    |                              |
| 39                     | Holmes      | S 10          | 330 NL 230 WL                               | NW    | Perry Fulk, Sr.          | 1-A      | C. R. Haycock      | 10-10      | €cr          | --         | --            | --   | 2700        | FWC    | RT    |                              |
| 40                     | Vernon      | S 5           | 768 SL 425 EL                               | SW    | Mt. Carmel Dlg. Co.      | 1        | Strohn-Snyder      | 11-10      | €cr          | --         | --            | --   | 3500        | FWC    | RT    | Active                       |
| 41                     | Cranberry   | S 11          | 500 NL 230 WL                               | SE    | Mutual O. & G. Co.       | 1        | A. Hyringer        | 11-8       | €cr          | --         | --            | --   | 3514        | FWC    | RT    |                              |
| 42                     | Dallas      | S 25          | 660 SL 600 WL                               | NE    | Hadson Ohio Oil Co.      | 1        | S. & B. Harmon     | 12-5       | €cr          | --         | --            | --   | 2703        | FWC    | RT    |                              |
|                        |             | SUMMARY       | GAS-0                                       | OIL-0 | COMBINATION-0            |          | DRY-27 TOTAL-27    |            |              |            |               | 0    | 0           | 85,883 | FEET  |                              |
| CUYAHOGA COUNTY        |             |               |   |       |                          |          |                    |            |              |            |               |      |             |        |       |                              |
| 531                    | Brecksville | L 71          | 972 SL 1680 EL                              |       | Henry Merkle             | 1        | Henry Merkle       |            |              |            |               |      |             | FWC    | CT    | Active                       |
|                        |             | SUMMARY       | GAS-0                                       | OIL-0 | COMBINATION-0            |          | DRY-0 TOTAL-0      |            |              |            |               | 0    | 0           | 0      | FEET  |                              |
| OLD WELLS ABANDONED    |             |               |   |       |                          |          |                    |            |              |            |               |      |             |        |       |                              |
| 242                    | Royalton    | S 14          | 350 SL 1115 WL                              |       | National O. & G. Corp.   | 3        | W. Stuhr           | 1955       | Sal          | ?          | --            | ?    | 3233        | Pool   | CT    | Abd. 10-8                    |
| 491                    | Cleveland   |               |   |       | Div. of Design & Constr. | 1        | City of Cleveland  | ?          | Dor?         | ?          | ?             | --   | 1090        | Pool   | CT    | Abd. 3-18                    |
| 516                    | Cleveland   |               | 90 N of Vincent Ave.<br>104 W of E. 6th St. |       | The 600 Superior Corp.   | 1        | 600 Superior Ave.  | ?          | Doh          | ?          | ?             | --   | 840         | Pool   | CT    | Abd. 1-27                    |
| 517                    | Brook Park  |               | 23 N property line<br>95 W of Michael Dr.   |       | Blue Ribbon Constr. Co.  | 1        | 6145 Michael Drive | ?          | Doh?         | ?          | ?             | --   | 1335        | Pool   | CT    | Abd. 2-5                     |
| 518                    | Cleveland   | L 7041        | 140 NL 26 EL                                |       | Wanda Realty Co.         | 1        | 49 Broadway Ave.   | ?          | Doh          | ?          | ?             | --   | 950         | Pool   | CT    | Abd. 2-25                    |

## LIST OF OPERATIONS DURING 1964

| Permit<br>Number       | Township     | Land<br>Division             | Location   | Operator                                       | Well<br>No. | Lease                                     | Date<br>Comp. | Deepest<br>Unit | Type<br>Comp. | Initial Prod. |      | Total<br>Depth | Class. | Tools | Remarks    |
|------------------------|--------------|------------------------------|--|--|-------------|---|---------------|-----------------|---------------|---------------|------|----------------|--------|-------|------------|
|                        |              |                              |  |  |             |   |               |                 |               | MCFGPD        | BOPD |                |        |       |            |
| CUYAHOGA COUNTY (con.) |              |                              |  |  |             |   |               |                 |               |               |      |                |        |       |            |
| 519                    | Cleveland    | N. Olmstead                  | 301 S of Kennedy Ridge Rd.<br>125 E property line    | Church of Jesus Christ<br>of Latter Day Saints | 1           | 25479 Kennedy Ridge Rd.                   | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd.       |
| 520                    | Cleveland    | L 4223                       | 139 N of 50th St.<br>31 E of Terminal Ave.           | Mark Investment Co.                            | 1           | Mark Investment Co.                       | ?             | Doh             | ?             | ?             | --   | 750            | Pool   | CT    | Abd. 5-22  |
| 521                    | Cleveland    |                              | 92 N of Western Ave.<br>105 E of W. 117th St.        | American Machine &<br>Foundry                  | 1           | 3017 W. 117th St.                         | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 5-11  |
| 522                    | Westlake     | L 55                         | 94 S property line<br>167 W of Dover Center Rd.      | Lutheran Home For The<br>Aged                  | 1           | 2116 Dover Center Rd.                     | ?             | Doh             | ?             | ?             | --   | 825            | Pool   | CT    | Abd. 2-10  |
| 523                    | N. Olmstead  |                              | 67 S of Lorain Rd.<br>188 E property line            | Marathon Oil Co.                               | 1           | SE corner Butternut<br>Ridge & Lorain Rd. | ?             | Doh             | ?             | ?             | --   | 800            | Pool   | CT    | Abd. 3-2   |
| 524                    | E. Cleveland |                              | 32 N of S property line<br>104 W of Noble Rd.        | Norman Kotoch                                  | 1           | 1760 Noble Rd.                            | ?             | Doh             | ?             | ?             | --   | 825            | Pool   | CT    | Abd. 3-2   |
| 525                    | Rockport     | S 9                          |  | Hulan Div., Ohio Brass Co.                     | 1           | Ohio Brass Co.                            | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 5-11  |
| 526                    | Rockport     | S 9                          | 139 N of Puritas Ave.<br>811 W of W. 146th St.       | Zephyr Homes, Inc.                             | 1           | 14710 Puritas Ave.                        | ?             | Doh             | ?             | ?             | --   | 940            | Pool   | CT    | Abd. 5-14  |
| 527                    | Lakewood     | S 22                         | 253 S of Detroit Ave.<br>141 E. of Warren Rd.        | Berlyn, Inc.                                   | 1           | 14725 Detroit Ave.                        | ?             | Doh             | ?             | ?             | --   | 816            | Pool   | CT    | Abd. 5-19  |
| 528                    | Dover        | L 135                        | 45 SL lot<br>79 E of Queen Anne Gate                 | Ohio Shores Constr. Co.                        | 1           | Ohio Shores Constr. Co.                   | ?             | Doh             | ?             | ?             | --   | 920            | Pool   | CT    | Abd. 6-11  |
| 529                    | Dover        | L 57                         | 37 S of Hilliard Rd.<br>820 E of Canterbury Rd.      | City of Westlake                               | 1           | City of Westlake                          | ?             | Doh             | ?             | ?             | --   | 955            | Pool   | CT    | Abd. 7-10  |
| 530                    | Dover        | S 7                          | 282 S of Lorain Rd.<br>33 W property line            | John Dettiebach                                | 1           | John Dettiebach                           | ?             | Dor?            | ?             | ?             | --   | 1250           | Pool   | CT    | Abd. 8-3   |
| 532                    | Brooklyn     | L 9                          | 260 N of Detroit Ave.<br>90 E of NYC RR.             | H. Barr  | 1           | H. Barr                                   | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 8-3   |
| 533                    | Rockport     |                              | 38 N property line<br>76 E of W. 150th St.           | Leonard H. Krill Co.                           | 1           | 4801 W. 150th St.,<br>Cleveland           | ?             | Doh             | ?             | ?             | --   | 850            | Pool   | CT    | Abd. 7-23  |
| 534                    | Dover        | L 58                         | 143 S of Hilliard Rd.<br>204 EL lot                  | Westlake Board of<br>Education                 | 1           | 24525 Hilliard Rd.                        | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 12-22 |
| 535                    | Olmstead     | S 29                         | 724 S of Brook Park Rd.<br>322 W property line       | The May Co.                                    | 1           | The May Co.                               | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 9-4   |
| 536                    | Middleburg   | S 2                          | 99 N of Zaremba Dr.<br>64 E of Elmdale Rd.           | Blue Ribbon Constr. Co.                        | 1           | Blue Ribbon Constr. Co.                   | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 10-2  |
| 537                    | Seven Hills  |                              | Seven Hills Village                                  | Paris Devel. Corp.                             | 2           | Paris Devel. Corp.                        | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 9-2   |
| 538                    | Rockport     | Lakewood<br>townsite         | 26 S of Lake Ave.<br>142 W of Hird Ave.              | Lake Cen. Bldg. Co.                            | 1           | Lake Cen. Bldg. Co.                       | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 9-2   |
| 539                    | Independence | L 207 Seven<br>Hills Village | 87 S of E. Hillsdale Ave.<br>300 E of North View Dr. | Paris Devel. Corp.                             | 3           | Paris Devel. Corp.                        | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 9-17  |
| 540                    | Independence | L 184 Seven<br>Hills Village | 173 S of E. Parkleigh Dr.<br>106 E of North View Dr. | Paris Devel. Corp.                             | 1           | Paris Devel. Corp.                        | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 10-1  |
| 541                    | Strongsville | L 32                         | 1120 NL 1200 WL                                      | Ohio Fuel Gas Co.                              | 1           | Kamms Corners<br>Realty                   | 1927          | Sal             | ?             | ?             | --   | 2906           | Pool   | CT    | Abd. 10-16 |
| 542                    | Strongsville | L 32                         | 400 NL 1200 WL                                       | Ohio Fuel Gas Co.                              | 2           | Kamms Corners<br>Realty                   | ?             | Sal             | ?             | ?             | --   | 2909           | Pool   | CT    | Abd. 10-27 |
| 543                    | N. Olmstead  |                              |  | Schneider Dlg., Inc.                           | 2           | K. W. K. Corp.                            | ?             | Doh?            | ?             | ?             | --   | ?              | Pool   | CT    | Abd. 11-23 |
| 544                    | Independence | L 147 Seven<br>Hills Village | 83 N of North View Dr.<br>45 E of E. Meadow Lawn Rd. | Paris Devel. Corp.                             | 2           | Paris Devel. Corp.                        | ?             | Doh?            | ?             | ?             | --   | 2716           | Pool   | CT    | Abd. 12-9  |

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township    | Land Division | Location  | Operator              | Well No.                | Lease                                   | Date Comp.      | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks               |    |
|------------------------|-------------|---------------|---|-----------------------|-------------------------|---|-----------------|--------------|------------|---------------|------|-------------|--------|-------|-----------------------|----|
|                        |             |               |   |                       |                         |   |                 |              |            | MCFGPD        | BOPD |             |        |       |                       |    |
| CUYAHOGA COUNTY (con.) |             |               |   |                       |                         |   |                 |              |            |               |      |             |        |       |                       |    |
| 545                    | Olmstead    | L 30          | 143 S of Brook Park Rd.<br>93 W of Columbia Rd. | Evergreen Constr. Co. | 1                       | SW corner Brook Park Rd. & Columbia Rd. | ?               | Doh          | ?          | ?             | --   | 760         | Pool   | CT    | Abd. 12-8             |    |
| 546                    | N. Olmstead | L 16          | 44 NL Sublot 107<br>59 E of Plumwood Dr.        | Fairway Land Co.      | 1                       | Treeland Subdiv. 2                      | ?               | Doh?         | ?          | ?             | --   | ?           | Pool   | CT    | Abd. 12-?             |    |
| 547                    | Bay Village |               | 176 N of Lake Rd.<br>320 W of Columbia Rd.      | Mrs. E. A. Tuttle     | 1                       | 25401 Lake Road<br>Bay Village          | ?               | Doh?         | ?          | ?             | --   | 775         | Pool   | CT    | Abd. 12-?             |    |
|                        |             | SUMMARY       | ABANDONED-33                                    |                       |                         |   |                 |              |            |               |      |             |        |       |                       |    |
| DEFIANCE COUNTY        |             |               |   |                       |                         |   |                 |              |            |               |      |             |        |       |                       |    |
| 29                     | Farmer      | S 31          | 990 SL 330 EL                                   | SE                    | Rovell Oil Co.          | 1                                       | R. S. Coy       | ?            | Ot?        | --            | --   | --          | Out    | CT    | Lost hole 1845 ft.    |    |
| 32                     | Farmer      | S 31          | 330 NL 330 WL                                   | NW                    | Rovell Oil Co.          | 1                                       | Zelda Smith     | 3-?          | Ot         | Acid          | --   | 2048        | Out    | CT    | Show oil              |    |
| 33                     | Farmer      | S 31          | 390 SL 1090 EL                                  | SW                    | Rovell Oil Co.          | 1                                       | D. Miller       |              |            |               |      |             | Pool   | CT    | Abd. loc.             |    |
| 34                     | Mark        | S 6           | 990 NL 330 WL                                   | NE                    | Webster Dlg. & Devel.   | 1                                       | Harry Belknap   |              |            |               |      |             | Pool   | CT    | Abd. loc.             |    |
| 35                     | Noble       | S 10          | 330 NL 330 EL                                   | NE                    | Great Lakes Dlg. Co.    | 1                                       | J. & E. Meyer   |              |            |               |      |             | Pool   | CT    | Active                |    |
|                        |             | SUMMARY       | GAS-0 OIL-0                                     | COMBINATION-0         |                         | DRY-1 TOTAL-1                           |                 |              |            | 0             | 0    | 2,048       | FEET   |       |                       |    |
| DELAWARE COUNTY        |             |               |   |                       |                         |   |                 |              |            |               |      |             |        |       |                       |    |
| 20                     | Marlboro    | L 6           | 855 SL 1095 EL                                  |                       | David Law               | 1                                       | H. & F. Wilson  | 2-26         | €cr        | --            | --   | 2632        | FWC    | CT    | 18 BWPD Discovery     |    |
| 21                     | Porter      | L 12 (2Q)     | 330 SL 1210 EL                                  |                       | Don Baines Dlg. Co.     | 1                                       | Russell Sewell  | 1-17         | €cr        | Acid          | --   | 18          | 3480   | NWC   |                       | RT |
| 22                     | Radnor      | L 1           | 24900 NL 9800 EL Twp.                           |                       | Southern Triangle Oil   | 1                                       | F. Jones        | 1-16         | €ms        | --            | --   | 3426        | FWC    | RT    |                       |    |
| 23                     | Porter      | L 19 (1Q)     | 975 NL 660 WL                                   |                       | Don Baines Dlg. Co.     | 1                                       | Lloyd White     | 1-31         | €cr        | --            | --   | 3627        | Out    | RT    | Canceled              |    |
| 24                     | Porter      | L 19 (1Q)     | 330 SL 386 EL                                   |                       | Don Baines Dlg. Co.     | 2                                       | Lloyd White     |              |            |               |      |             | Pool   | RT    |                       |    |
| 25                     | Porter      | L 16 (1Q)     | 150 NL 1316 WL                                  |                       | Southern Indep. O. & R. | 1                                       | Boyd            |              |            |               |      |             | Pool   | RT    | Canceled              |    |
| 26                     | Porter      | L 24 (1Q)     | 500 SL 35 EL                                    |                       | Jerry Moore, Inc.       | 1                                       | Fred Porter     | 3-5          | €cr        | --            | --   | 3750        | Out    | RT    |                       |    |
| 27                     | Porter      | L 7 (2Q)      | 226 SL 1380 WL                                  |                       | Jerry Moore, Inc.       | 1                                       | K. & R. Feazel  | 4-18         | €cr        | --            | --   | 3474        | Pool   | RT    | Canceled              |    |
| 28                     | Kingston    | L 29 (2Q)     | 330 NL 330 EL                                   |                       | Sun Oil Co.             | 1                                       | F. & S. Sheets  | 3-10         | €ms        | --            | --   | 3809        | FWC    | RT    |                       |    |
| 29                     | Kingston    | L 4 (4Q)      | 1000 NL 330 WL                                  |                       | T. A. Ferrell           | 1                                       | F. & N. Daily   | 2-29         | €cr        | --            | --   | 3260        | FWC    | RT    | Canceled              |    |
| 30                     | Porter      | L 12 (2Q)     | 495 SL 900 EL                                   |                       | Jerry Moore, Inc.       | 1                                       | Russell Sewell  | 4-8          | €cr        | --            | --   | 3605        | Pool   | RT    |                       |    |
| 31                     | Berlin      | L 34 (3Q)     | 452 NL 1486 WL                                  |                       | Donald Hunt             | 1                                       | George Killen   |              |            |               |      |             | FWC    | CT    | Canceled              |    |
| 32                     | Porter      | L 7 (2Q)      | 50 SL 329 EL                                    |                       | McGrew Oil Assoc.       | 1                                       | Nininger        |              |            |               |      |             | Pool   | RT    |                       |    |
| 33                     | Porter      | L 17 (2Q)     | 755 NL 1500 EL                                  |                       | Killbuck Dlg. Co.       | 1                                       | J. & A. Stimmel |              |            |               |      |             | NWC    | CT    | Canceled              |    |
| 34                     | Porter      | L 28 (2Q)     | 100 NL 135 WL                                   |                       | Killbuck Dlg. Co.       | 1                                       | F. Hayes        |              |            |               |      |             | Out    | CT    |                       |    |
| 35                     | Scioto      | VMSL 2995     | 913 NL 1385 WL                                  |                       | Diamond & Ford          | 1                                       | W. & M. Berger  | 5-20         | €cr        | --            | --   | 2470        | FWC    | CT    | Replaced by P-47      |    |
| 36                     | Orange      | L 5-N (1Q)    | 6100 NL 6440 EL Twp.                            |                       | John L. Oliver          | 1                                       | Merrill Roe     |              |            |               |      |             | FWC    | RT    |                       |    |
| 37                     | Brown       | L 18 (3Q)     | 1015 NL 159 EL                                  |                       | Wilma Nutt              | 1                                       | Wilma Nutt      |              |            |               |      |             | FWC    | CT    | Canceled              |    |
| 38                     | Scioto      | L 8           | 330 SL 330 EL                                   |                       | Mid-Ohio O. & G. Devel. | 1                                       | D. & M. Brown   | 7-27         | €cr        | --            | --   | 2291        | FWC    | RT    |                       |    |
| 39                     | Porter      | L 7 (2Q)      | S. T. Mason Survey 1493<br>330 SL 330 EL        |                       | T & W Oil Co.           | 1                                       | Nininger        | 6-?          | €cr        | Acid          | --   | 3509        | Pool   | RT    | Oil 5 BPD;Wtr. 15 BPD |    |

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township  | Land Division | Location         | Operator                 | Well No. | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |     | Total Depth | Class. | Tools | Remarks               |  |  |
|------------------------|-----------|---------------|------------------|--------------------------|----------|-----------------------|------------|--------------|------------|---------------|-----|-------------|--------|-------|-----------------------|--|--|
|                        |           |               |                  |                          |          |                       |            |              |            |               |     | MCFGPD      | BOPD   |       |                       |  |  |
| DELAWARE COUNTY (con.) |           |               |                  |                          |          |                       |            |              |            |               |     |             |        |       |                       |  |  |
| 40                     | Orange    | L 2           | 2300 NL 4990 EL  | Dusty Dlg. Co.           | 1        | Fred White            | 5-22       | €cr          | --         | --            | --  | 2876        | FWC    | CT    | Discovery             |  |  |
| 41                     | Porter    | L 13 (2Q)     | 470 NL 330 WL    | Jerry Moore, Inc.        | 1        | P. & M. Snashall      | 7-8        | €cr          | --         | --            | --  | 3639        | Pool   | RT    |                       |  |  |
| 42                     | Delaware  | L 8 (4Q)      | 980 NL 4260 EL   | Slatzer O. & G. Co.      | 1        | C. & B. Ross          | 4-28       | €cr          | Acid       | --            | 90  | 2530        | FWC    | RT    |                       |  |  |
| 43                     | Porter    | L 11 (3Q)     | 1430 NL 725 EL   | C. E. Brehm              | 1        | Dible et al           | 10-5       | €cr          | --         | --            | --  | 3455        | FWC    | RT    |                       |  |  |
| 44                     | Thompson  | VMSL 6293     | 8080 NL 347 WL   | Earl V. Shehorn          | 1        | N. & B. Potts         | 5-25       | €cr          | --         | --            | --  | 2126        | FWC    | CT    |                       |  |  |
| 45                     | Porter    | L 3 (2Q)      | 960 SL 835 WL    | Walter Beisser           | 1        | E. M. Foster          | 7-11       | €cr          | Acid       | --            | 25  | 3383        | Out    | CT    | Replaces P-36         |  |  |
| 46                     | Delaware  | L 16 (1Q)     | 330 NL 330 EL    | Well Investments, Inc.   | 1        | G. Smith              | 6-27       | €cr          | --         | --            | --  | 2610        | FWC    | CT    |                       |  |  |
| 47                     | Orange    | L 5-N (1Q)    | 6100 NL 6440 EL  | John L. Oliver           | 1        | M. & E. Roe           | 6-19       | €cr          | --         | --            | --  | 2820        | FWC    | CT    |                       |  |  |
| 48                     | Delaware  | L 8 (4Q)      | 590 SL 3440 EL   | Slatzer O. & G. Co.      | 2        | C. & B. Ross          | 5-14       | €cr          | Acid       | --            | 90  | 2559        | Pool   | RT    |                       |  |  |
| 49                     | Oxford    | L 16 (3Q)     | 990 NL 1020 EL   | Woody Jones Dlg. Co.     | 1        | D. & K. Rouse         | 5-25       | €cr          | --         | --            | --  | 2852        | FWC    | RT    |                       |  |  |
| 50                     | Delaware  | L 17 (1Q)     | 653 SL 1980 WL   | Texas Coastal Oil Corp.  | 1        | Rupples               | 6-7        | €ms          | --         | --            | --  | 4375        | FWC    | RT    |                       |  |  |
| 51                     | Berlin    | L 2 (4Q)      | 295 SL 4748 WL   | Barron Oil Co.           | 1        | C. Velinoff           | 5-21       | €cr          | --         | --            | --  | 2851        | FWC    | RT    |                       |  |  |
| 52                     | Oxford    | L 29 (3Q)     | 230 NL 1114 WL   | M & D Corp.              | 1        | M. Campbell           | 5-24       | €cr          | --         | --            | --  | 2790        | FWC    | CT    |                       |  |  |
| 53                     | Brown     | L 16 (3Q)     | 1620 NL 480 WL   | Donald J. Krist          | 1        | R. & E. Sheets        | 5-24       | €cr          | --         | --            | --  | 2759        | FWC    | RT    |                       |  |  |
| 54                     | Delaware  | L 20 (4Q)     | 1180 SL 990 EL   | Obie Shaw                | 1        | L. M. Hough           | 5-22       | €cr          | --         | --            | --  | 2750        | Out    | RT    |                       |  |  |
| 55                     | Concord   | VMSL 2992     | 1255 SL 612 WL   | Raymond Brinkley         | 1        | R. & D. Wells         | 7-23       | €cr          | --         | --            | --  | 2796        | FWC    | RT    | Wtr. 10 BPD           |  |  |
| 56                     | Berkshire | L 7 (1Q)      | 3200 SL 1130 EL  | Kin-Ark Oil Co.          | 1        | Mallernee-Morris      | 5-18       | €cr          | --         | --            | --  | 3227        | FWC    | RT    |                       |  |  |
| 57                     | Troy      | L 11 (1Q)     | 489 NL 4160 EL   | Slatzer O. & G. Co.      | 1        | D. & B. Weed          | 5-23       | €cr          | --         | --            | --  | 2627        | FWC    | RT    |                       |  |  |
| 58                     | Porter    | L 2 (2Q)      | 527 SL 2022 WL   | Thomas A. Flannery       | 1        | M. E. Perry           | 6-1        | €cr          | --         | --            | --  | 3381        | FWC    | RT    |                       |  |  |
| 59                     | Porter    | L 16 (1Q)     | 230 NL 1405 WL   | Southern Indep. O. & R.  | 1        | P. & B. Boyd          | 12-?       | €cr          | Acid       | --            | 17  | 3651        | Pool   | RT    |                       |  |  |
| 60                     | Delaware  | L 8 (4Q)      | 425 NL 4380 EL   | Skiles Cen. Ohio Explor. | 1        | Leonard Hough         | 6-11       | €cr          | Acid       | --            | 192 | 2632        | Pool   | RT    | Active                |  |  |
| 61                     | Troy      | L 13 (1Q)     | 300 SL 940 EL    | Rudy Herman              | 1        | C. & B. Calhoun       | 7-12       | €cr          | --         | --            | --  | 2603        | FWC    | CT    |                       |  |  |
| 62                     | Delaware  | L 25 (4Q)     | 230 SL 270 WL    | Capitol City Pet. Co.    | 1        | D. Wedemyer           | 5-25       | €cr          | --         | --            | --  | 2652        | Out    | RT    |                       |  |  |
| 63                     | Delaware  | L 5           | 300 NL 1600 WL   | Bell & Cox Prod. Co.     | 1        | V. N. Huddleston      |            |              |            |               |     |             | Pool   | CT    |                       |  |  |
| 64                     | Porter    | L 11 (3Q)     | 2250 SL 400 EL   | C. E. Brehm              | 1        | Fisher-Dibel          | 5-31       | €cr          | --         | --            | --  | 3450        | FWC    | RT    |                       |  |  |
| 65                     | Delaware  | (4Q)          | 12200 NL 8780 EL | Texas Coastal Oil Corp.  | 1        | Edward Jaynes         | 7-5        | €cr          | --         | --            | --  | 2801        | FWC    | RT    |                       |  |  |
| 66                     | Kingston  | L 13 (4Q)     | 861 NL 640 EL    | Hands Prod. Co.          | 1        | H. & S. Chandler      | 7-3        | €cr          | --         | --            | --  | 3326        | FWC    | CT    |                       |  |  |
| 67                     | Delaware  | L 20 (3Q)     | 225 SL 411 WL    | Slatzer O. & G. Co.      | 1        | L. & H. Lobdell       | 6-12       | €cr          | --         | --            | --  | 3020        | FWC    | RT    |                       |  |  |
| 68                     | Delaware  | L 21 (4Q)     | 1400 NL 230 WL   | C. B. Earnest            | 1        | R. & J. Parmer        | 6-27       | €cr          | --         | --            | --  | 2693        | Pool   | RT    |                       |  |  |
| 69                     | Marlboro  | L 36 (1Q)     | 1700 NL 750 WL   | Howard D. Atha           | 1        | E. & L. Moyer         | 6-1        | €cr          | --         | --            | --  | 2834        | FWC    | RT    |                       |  |  |
| 70                     | Delaware  | L 8 (4Q)      | 32 NL 615 EL     | Meridian Oil Co.         | 1        | Barrett-Hough         | 6-1        | €cr          | --         | --            | --  | 2612        | Pool   | RT    | Abd. loc.<br>Canceled |  |  |
| 71                     | Scioto    | VMSL 835      | 561 SL 627 WL    | Barron Kidd              | 1        | William Finneran      | 6-30       | €cr          | --         | --            | --  | 2376        | FWC    | CT    |                       |  |  |
| 72                     | Brown     | L 14 (4Q)     | 1056 SL 3366 EL  | Killbuck Dlg. Co.        | 1        | R. G. Wolfinger       | 7-1        | €cr          | --         | --            | --  | 3007        | FWC    | CT    |                       |  |  |
| 73                     | Delaware  | L 17 (1Q)     | 10800 SL 9880 EL | Glynn Trolz & Assoc.     | 1        | Kissner-Miller        |            |              |            |               |     |             | FWC    | RT    |                       |  |  |
| 74                     | Delaware  | L 15 (3Q)     | 985 SL 230 EL    | M. L. Vance Dlg.         | 1        | Northwest Popcorn Co. |            |              |            |               |     |             | Out    | CT    |                       |  |  |
| 75                     | Delaware  | L 7 (4Q)      | 4961 NL 1130 WL  | Robert Pettit            | 1        | H. & H. Law           | 7-9        | €cr          | Nat?       | --            | --  | 2568        | Pool   | CT    | PB 560 Gas 21 MCF     |  |  |
| 76                     | Concord   | L 17 (2Q)     | 2720 NL 540 WL   | Slatzer O. & G. Co.      | 1        | G. Moore              | 6-17       | €cr          | --         | --            | --  | 3430        | FWC    | RT    |                       |  |  |
| 77                     | Harlem    | L 1 (3Q)      | 595 SL 3900 EL   | Algonquin Pet. Co.       | 1        | L. E. Paul            | 6-27       | €cr          | --         | --            | --  | 3320        | FWC    | CT    |                       |  |  |
| 78                     | Delaware  | L 4 (4Q)      | 35 NL 1091 WL    | Glynn Trolz & Assoc.     | 1        | F. & D. Nist          | 6-11       | €cr          | --         | --            | --  | 2592        | Pool   | RT    |                       |  |  |
| 79                     | Delaware  | L 4 (4Q)      | 382 SL 230 EL    | Bill Allen & Assoc.      | 1        | Mrs. Fred Shaw        |            |              |            |               |     |             | NWC    | RT    |                       |  |  |



## LIST OF OPERATIONS DURING 1964

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SUMMARY OF OIL AND GAS ACTIVITY IN 1964

| Permit Number          | Township | Land Division | Location        | Operator                 | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. MCFGPD | BOPD | Total Depth | Class. | Tools | Remarks                |
|------------------------|----------|---------------|-----------------|--------------------------|----------|--------------------|------------|--------------|------------|----------------------|------|-------------|--------|-------|------------------------|
| DELAWARE COUNTY (con.) |          |               |                 |                          |          |                    |            |              |            |                      |      |             |        |       |                        |
| 80                     | Delaware | L 3 (4Q)      | 580 NL 2600 WL  | R. Pettit & W. C. Hurtt  | 1        | Childrens Home     | 6-11       | €cr          | --         | --                   | --   | 2614        | Pool   | RT    | Abd. loc.              |
| 81                     | Orange   | L 10 (2Q)     | 424 SL 4008 EL  | W. Harold Nutt           | 1        | Henry Miller       | 9-19       | €cr          | --         | --                   | --   | 2721        | FWC    | CT    |                        |
| 82                     | Delaware | L 10 (4Q)     | 7840 NL 6500 EL | Bill Allen & Assoc.      | 1        | John Wilson        |            |              |            |                      |      |             | Pool   | RT    |                        |
| 83                     | Oxford   | L 16 (2Q)     | 200 SL 1310 EL  | Howard D. Atha           | 1        | W. & G. Cole       | 6-14       | €cr          | --         | --                   | --   | 2750        | FWC    | RT    |                        |
| 84                     | Marlboro | L E           | 660 NL 550 WL   | Tri-State Prod.          | 1        | L. N. Benedict     | 6-10       | €cr          | --         | --                   | --   | 2795        | FWC    | RT    |                        |
| 85                     | Scioto   | L 835         | 330 NL 1597 WL  | Diamond & Ford           | 1        | L. McMillan        | 8-?        | €cr          | --         | --                   | --   | 2470        | FWC    | CT    |                        |
| 86                     | Kingston | L 14 (1Q)     | 230 SL 690 EL   | Frederick Heldt          | 1        | L. & D. Stout      | 7-28       | €cr          | --         | --                   | --   | 3228        | FWC    | CT    |                        |
| 87                     | Troy     | L 12 (1Q)     | 235 SL 1155 WL  | Capitol City Pet. Co.    | 1        | McDonell           | 6-24       | €cr          | Acid       | --                   | 75   | 2630        | FWC    | RT    | Wtr. Discovery         |
| 88                     | Porter   | L 12 (1Q)     | 330 NL 175 WL   | Waverly Oil Works        | 1        | Lloyd White        | 7-9        | €cr          | --         | --                   | --   | 3667        | NWC    | CT    |                        |
| 89                     | Porter   | L 6 (1Q)      | 1144 NL 1038 WL | C. F. Martin             | 1        | Barr               | 7-10       | €cr          | --         | --                   | --   | 3873        | Pool   | RT    |                        |
| 90                     | Delaware | L 7 (4Q)      | 1300 NL 2590 EL | Gibbs Oil Co.            | 1        | E. & R. Monte      | 6-26       | €cr          | --         | --                   | --   | 2640        | FWC    | RT    |                        |
| 91                     | Berlin   | L 8 (4Q)      | 1091 SL 3620 EL | Gibbs Oil Co.            | 1        | T. & J. Pomeroy    | 6-22       | €cr          | --         | --                   | --   | 3009        | FWC    | RT    |                        |
| 92                     | Delaware | L 7 (4Q)      | 230 SL 2800 EL  | Skiles Cen. Ohio Explor. | 1        | R. M. Bernlohr     | 6-25       | €cr          | --         | --                   | --   | 2660        | Pool   | RT    |                        |
| 93                     | Delaware | L M (1Q)      | 230 SL 3270 EL  | Meridian Oil Co.         | 1        | L. Smith           | 7-30       | €cr          | Acid       | --                   | 20   | 2584        | FWC    | RT    | Wtr. 25 BPD Discovery  |
| 94                     | Troy     | L 32 (1Q)     | 580 NL 2180 EL  | A. Tulley                | 1        | Campland, Inc.     | 8-18       | €cr          | --         | --                   | --   | 2674        | FWC    | CT    |                        |
| 95                     | Orange   | L 1-N (1Q)    | 345 SL 5433 EL  | Dusty Dig. Co.           | 1        | Bertha Ferson      | 7-15       | €cr          | --         | --                   | --   | 2870        | FWC    | CT    |                        |
| 96                     | Radnor   | L 28 (1Q)     | 447 SL 538 EL   | Barron Oil Co.           | 1        | I. & E. Miller     | 7-9        | €cr          | --         | --                   | --   | 2355        | FWC    | RT    |                        |
| 97                     | Delaware | L P (1Q)      | 4760 SL 4218 EL | Westbury Pet. Co.        | 1        | H. & M. Rogers     | 8-12       | €cr          | --         | --                   | --   | 2687        | FWC    | RT    |                        |
| 98                     | Delaware | L 15 (2Q)     | 2010 NL 2912 WL | Eastern Dig., Inc.       | 1        | Russell Cryder     | 7-6        | €ms          | --         | --                   | --   | 3507        | FWC    | RT    |                        |
| 99                     | Delaware | L Q (1Q)      | 273 SL 3310 EL  | Merle B. Piper           | 1        | S. & E. Ambler     | 8-17       | €cr          | --         | --                   | --   | 2548        | FWC    | CT    |                        |
| 100                    | Delaware | L N (1Q)      | 980 NL 5840 EL  | Harry A. Holtom          | 1        | H. Metzger         |            |              |            |                      |      |             | FWC    | RT    | Abd. loc.              |
| 101                    | Oxford   | L 9 (4Q)      | 1420 SL 1020 WL | Mansfield O. & Devel.    | 1        | J. & A. Rothwell   | 7-16       | €cr          | --         | --                   | --   | 2980        | FWC    | RT    |                        |
| 102                    | Berlin   | L 8 (4Q)      | 1650 NL 5640 EL | Delaco Pet., Inc.        | 1        | Chrismar-Davenport | 7-27       | €cr          | --         | --                   | --   | 2870        | FWC    | RT    |                        |
| 103                    | Oxford   | L 6 (1Q)      | 240 SL 586 EL   | Santa Fe Dig. Co.        | 1        | P. A. Daugherty    | 7-2        | €cr          | --         | --                   | --   | 3100        | FWC    | RT    |                        |
| 104                    | Brown    | L 10 (4Q)     | 1036 NL 1190 WL | Algonquin Pet. Co.       | 1        | R. & A. Innis      | 7-8        | €cr          | Acid       | --                   | 25   | 2898        | FWC    | RT    | PB 1800 Omay Discovery |
| 105                    | Delaware | L 8 (4Q)      | 409 SL 1272 EL  | Meridian Oil Co.         | 2-M      | L. & M. Hough      | 10-3       | €cr          | Acid       | --                   | 20   | 2610        | Pool   | RT    |                        |
| 106                    | Radnor   | L 12 (2Q)     | 230 SL 690 EL   | Simcox Oil & A. V. Seay  | 1        | I. L. Hedges       | 8-2        | €ms          | --         | --                   | --   | 2360        | FWC    | RT    |                        |
| 107                    | Troy     | L 10 (1Q)     | 875 SL 380 WL   | Federal O. & G. Co.      | 1        | R. M. Carlisle     | 8-2        | €cr          | --         | --                   | --   | 2599        | FWC    | CT    |                        |
| 108                    | Brown    | L 32 (3Q)     | 308 SL 230 WL   | Charles Schock           | 1        | R. F. Dix, Trustee | 7-12       | €cr          | --         | --                   | --   | 2798        | FWC    | CT    |                        |
| 109                    | Orange   | L 10 (1Q)     | 360 SL 325 EL   | John L. Oliver           | 1        | D. Daughters       | 8-19       | €cr          | --         | --                   | --   | 2813        | FWC    | CT    |                        |
| 110                    | Oxford   | L 5 (2Q)      | 230 NL 1980 EL  | Federal O. & G. Co.      | 1        | C. & G. Chadwick   | 9-9        | €cr          | --         | --                   | --   | 2932        | FWC    | CT    |                        |
| 111                    | Delaware | L 2 (2Q)      | 605 SL 448 EL   | Rudy Herman              | 1        | Vincent George     | 9-8        | €cr          | --         | --                   | --   | 2576        | Out    | CT    |                        |
| 112                    | Delaware | L 8 (4Q)      | 110 SL 660 EL   | Comanche Oil Co.         | 1        | A. & R. TenEyck    | 9-5        | €ms          | --         | --                   | --   | 2593        | FWC    | CT    |                        |
| 113                    | Oxford   | L B (4Q)      | 42 SL 640 EL    | Alum Creek O. & G. Co.   | 1        | M. F. Westbrook    | 7-7        | €cr          | --         | --                   | --   | 3070        | FWC    | RT    |                        |
| 114                    | Brown    | L 5 (4Q)      | 1156 NL 1375 EL | Ralph Wheeler            | 1        | G. & I. Brodess    | 7-10       | €cr          | --         | --                   | --   | 3007        | FWC    | RT    |                        |
| 115                    | Delaware | L N (1Q)      | 2920 NL 7160 EL | Harry A. Holtom          | 1-A      | H. Metzger         | 10-21      | €cr          | --         | --                   | --   | 2550        | Pool   | CT    |                        |
| 116                    | Delaware | L S (1Q)      | 3250 SL 4200 EL | Harry A. Holtom          | 1        | J. & E. Stockdale  | 8-27       | €cr          | --         | --                   | --   | 2686        | Out    | CT    |                        |
| 117                    | Kingston | L 26 (2Q)     | 230 NL 330 EL   | Sun Oil Co.              | 1        | C. E. Walton       | 7-11       | €cr          | --         | --                   | --   | 3121        | FWC    | RT    |                        |
| 118                    | Liberly  | L 1 (3Q)      | 298 SL 1427 WL  | Westbury Pet. Co.        | 1        | W. & G. Coy        | 7-11       | €cr          | --         | --                   | --   | 2741        | FWC    | RT    |                        |
| 119                    | Orange   | L 5-E (4Q)    | 1550 NL 3460 EL | Barron Kidd              | 1        | R. & M. McCammon   | 8-14       | €cr          | --         | --                   | --   | 2829        | FWC    | CT    |                        |
| 120                    | Troy     | L 12          | 2380 SL 8770 EL | Capitol City Pet. Corp.  | 1        | Higley             | 7-15       | €cr          | --         | --                   | --   | 2575        | Pool   | RT    |                        |
| 121                    | Porter   | L 18 (2Q)     | 556 NL 1120 EL  | Hobson Oil Co.           | 1        | D. & T. Edwards    |            |              |            |                      |      |             | Out    | CT    | Active                 |
| 122                    | Troy     | L 2           | 3780 NL 1370 WL | Jerry L. Decker          | 1        | C. B. Wolfinger    |            |              |            |                      |      |             | Out    | CT    | Abd. loc.              |
| 123                    | Genoa    | L 6 (1Q)      | 482 NL 2445 EL  | Clifton B. Lewis         | 1        | Paul Everts        | 8-16       | €cr          | --         | --                   | --   | 3231        | FWC    | CT    |                        |
| 124                    | Troy     | L 9 (1Q)      | 2337 SL 3835 WL | Davidor & Davidor        | 1        | H. Kunze           | 7-18       | €cr          | --         | --                   | --   | 2590        | Pool   | RT    |                        |

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township  | Land Division | Location        | Operator                 | Well No. | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks  |
|------------------------|-----------|---------------|-----------------|--------------------------|----------|------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--|
|                        |           |               |                 |                          |          |                        |            |              |            | MCFGPD        | BOPD |             |        |       |  |
| DELAWARE COUNTY (con.) |           |               |                 |                          |          |                        |            |              |            |               |      |             |        |       |  |
| 125                    | Liberty   | L 18 (3Q)     | 230 NL 230 WL   | Westbury Pet. Co.        | 1        | S. Wolf                | 7-20       | €cr          | --         | --            | --   | 2575        | FWC    | RT    | Abd. loc.<br>Abd. loc.<br>Wtr. 20 BPD Discovery<br>PB to Omc |
| 126                    | Oxford    | L 12 (3Q)     | 330 SL 1000 WL  | Howard D. Atha           | 1        | D. & K. Rouse          | 11-15      | €ms          | --         | --            | --   | 3750        | FWC    | CT    |  |
| 127                    | Delaware  | L 16 (1Q)     | 580 NL 2020 WL  | Texas Coastal Oil Corp.  | 1        | River Forrest, Inc.    |            |              |            |               |      |             | FWC    | RT    |  |
| 128                    | Delaware  | L 16 (1Q)     | 920 NL 1300 EL  | Well Investments, Inc.   | 2        | G. M. Smith            |            |              |            |               |      |             | Pool   | RT    |  |
| 129                    | Berkshire | L 3 (3Q)      | 250 SL 1850 WL  | Eastern Dlg., Inc.       | 1        | B. C. Alexander        | 7-27       | €cr          | Acid       | --            | 100? | 3019        | FWC    | RT    |  |
| 130                    | Orange    | L 8 (1Q)      | 3850 SL 5650 EL | Twp. Merle B. Piper      | 1        | Glenn Peabody          | 9-10       | €cr          | --         | --            | --   | 2803        | FWC    | RT    | Abd. loc.  |
| 131                    | Porter    | L 31 (4Q)     | 1495 NL 1279 EL | Thurlow Weed             | 1        | J. W. Overture         | 9-10       | €cr          | --         | --            | --   | 3645        | FWC    | CT    |  |
| 132                    | Troy      | L 12 (1Q)     | 890 NL 1710 WL  | Skiles Cen. Ohio Explor. | 1        | L. & M. Burkhart       | 8-5        | €cr          | --         | --            | --   | 2650        | FWC    | RT    |  |
| 133                    | Delaware  | L 6 (4Q)      | 230 NL 2746 EL  | Davidor & Davidor        | 1        | Mable Law              | 7-29       | €cr          | --         | --            | --   | 2630        | Pool   | RT    |  |
| 134                    | Troy      | L 12 (1Q)     | 159 SL 586 WL   | Capitol City Pet. Corp.  | 1        | Hull, Clark, Gay et al | 7-27       | €cr          | --         | --            | --   | 2625        | Pool   | RT    |  |
| 135                    | Concord   | L 12 (1Q)     | 1070 SL 1080 EL | Delaco Pet., Inc.        | 1        | E. & D. Evans          |            |              |            |               |      |             | FWC    | RT    | Abd. loc.  |
| 136                    | Brown     | L 10          | 486 NL 1190 WL  | Algonquin Pet. Co.       | 1        | J. & B. Link           | 8-17       | Ocn          | --         | --            | --   | 1726        | Pool   | CT    |  |
| 137                    | Berkshire | L 7 (1Q)      | 640 NL 714 EL   | Kin-Ark Oil Co.          | 2        | Mallernee-Morris       | 7-27       | €cr          | --         | --            | --   | 3140        | FWC    | RT    |  |
| 138                    | Delaware  | L 17 (1Q)     | 690 NL 230 EL   | Gibbs Oil Co.            | 1        | Clark                  |            |              |            |               |      |             | Pool   | RT    |  |
| 139                    | Delaware  | S 1 (1Q)      | 2261 NL 4319 WL | Twp. Westbury Pet. Co.   | 1        | Schnipke               | 8-1        | €cr          | --         | --            | --   | 2528        | Pool   | RT    |  |
| 140                    | Porter    | L 10 (2Q)     | 80 SL 2322 WL   | Brinkerhoff Dlg. Co.     | 1        | Eakin & Fawmker        | 7-31       | €cr          | --         | --            | --   | 3361        | Out    | RT    | Lost hole 350 ft.<br>Lost hole 400 ft.<br>Replaced by P-165  |
| 141                    | Berlin    | L 6           | 235 SL 4885 EL  | Mrs. Delma Santoro       | 1        | J. & I. Smith          | 7-25       | D            | --         | --            | --   | --          | FWC    | CT    |  |
| 141-A                  | Berlin    | L 6           | 235 SL 4930 EL  | Mrs. Delma Santoro       | 1-A      | J. & I. Smith          | 8-16       | D            | --         | --            | --   | --          | FWC    | CT    |  |
| 142                    | Genoa     | L 5 (1Q)      | 300 NL 377 EL   | Collin Oil Co.           | 1        | C. C. Bricker          | 8-4        | €cr          | --         | --            | --   | 3466        | FWC    | RT    |  |
| 143                    | Kingston  | L 30 (2Q)     | 290 NL 290 EL   | Roy G. Gordon, Jr.       | 1        | Charles Moorehead      | 9-9        | €cr          | --         | --            | --   | 3152        | FWC    | CT    |  |
| 144                    | Delaware  | L 17 (4Q)     | 240 SL 1167 EL  | Ralph C. Hamblin         | 1        | W. & F. Deel           | 9-11       | €cr          | --         | --            | --   | 2680        | Out    | CT    | PB to Ot Discovery<br>Replaced by P-156                      |
| 145                    | Trenton   | L 35 (3Q)     | 900 SL 300 EL   | Waverly Oil Works        | 1        | H. & I. Guhier         | 9-3        | €cr          | --         | --            | --   | 3439        | FWC    | CT    |  |
| 146                    | Harlem    | L 4 (1Q)      | 1622 NL 827 WL  | Federal O. & G. Co.      | 1        | J. Fronk               | 11-17      | €cr          | Acid       | 4435          | --   | 3609        | FWC    | CT    |  |
| 147                    | Berlin    | L 5 (4Q)      | 6223 NL 2436 WL | Twp. L. N. Billingsley   | 1        | J. D. Slemmons         |            |              |            |               |      |             | FWC    | RT    |  |
| 148                    | Radnor    | L 10 (1Q)     | 444 NL 2583 EL  | Charles J. Seibert       | 1        | J. C. Harsh            | 11-19      | €cr          | --         | --            | --   | 2333        | FWC    | CT    |  |
| 149                    | Genoa     | L 11 (3Q)     | 330 NL 355 EL   | Merle B. Piper           | 1        | P. E. Martin           | 9-11       | €cr          | --         | --            | --   | 3023        | FWC    | CT    | Active   |
| 150                    | Trenton   | L 20 (2Q)     | 732 NL 1372 EL  | Calvert Eastern Dlg.     | 1        | Frank Reppart          | 8-19       | €cr          | --         | --            | --   | 3404        | FWC    | RT    |  |
| 151                    | Troy      | L 5 (2Q)      | 990 NL 330 EL   | Skiles Cen. Ohio Explor. | 1        | G. & M. Davis          | 10-20      | O            | --         | --            | --   | 1104        | FWC    | RT    |  |
| 152                    | Brown     | L 11 (4Q)     | 734 NL 2612 EL  | Westbury Pet. Co.        | 1        | J. B. Pope             |            |              |            |               |      |             | FWC    | CT    |  |
| 153                    | Porter    | L 14 (1Q)     | 1140 NL 330 EL  | Kennoll Corp.            | 1        | L. & E. Chandler       | 9-15       | €cr          | Acid       | --            | 30   | 3679        | Pool   | RT    |  |
| 154                    | Brown     | L 15 (4Q)     | 26 NL 2530 WL   | Algonquin Pet. Co.       | 1        | H. C. Heinlen          | 9-18       | €cr          | --         | --            | --   | 2912        | FWC    | RT    |  |
| 155                    | Brown     | L 10 (4Q)     | 1750 NL 1190 WL | Algonquin Pet. Co.       | 2        | R. & A. Innis          | 9-19       | Ocn          | --         | --            | --   | 1701        | Pool   | CT    |  |
| 156                    | Berlin    | L 5 (4Q)      | 6223 NL 2436 WL | Twp. Algonquin Pet. Co.  | 1        | J. D. Simmons          | 8-22       | €cr          | --         | --            | --   | 2826        | FWC    | RT    |  |
| 157                    | Liberty   | L 41 (4Q)     | 120 SL 240 EL   | Federal O. & G. Co.      | 1        | E. S. Halley           | 10-10      | €co          | --         | --            | --   | 2574        | FWC    | CT    |  |
| 158                    | Troy      | L 28 (1Q)     | 610 SL 295 EL   | Simcox Oil Co.           | 1        | A. & L. Johnson        | 11-3       | €cr          | --         | --            | --   | 2660        | Out    | RT    |  |
| 159                    | Brown     | L 9 (4Q)      | 1200 SL 230 EL  | Merle B. Piper           | 1        | James Watts            | 11-24      | €cr          | --         | --            | --   | 2868        | FWC    | CT    |  |
| 160                    | Berkshire | L 3 (3Q)      | 3250 NL 2370 EL | Skiles Cen. Ohio Explor. | 1        | B. C. Alexander        | 11-13      | €cr          | --         | --            | --   | 3044        | Pool   | RT    |  |
| 161                    | Orange    | L 15 (2Q)     | 281 NL 1805 EL  | Kin-Ark Oil Co.          | 1        | J. & M. English        | 9-10       | €cr          | --         | --            | --   | 2982        | FWC    | RT    |  |
| 162                    | Brown     | L 1 (1Q)      | 670 NL 855 EL   | Alum Creek O. & G. Co.   | 1        | P. E. Call             | 10-23      | €cr          | --         | --            | --   | 3117        | FWC    | CT    |  |
| 163                    | Berkshire | L 19          | 6639 SL 2198 EL | Twp. Eastern Dlg., Inc.  | 1        | J. & A. MacBlane       | 9-11       | €cr          | --         | --            | --   | 3220        | FWC    | RT    |  |

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township  | Land Division | Location              | Operator                  | Well No. | Lease                      | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |    | Total Depth | Class. | Tools | Remarks            |                       |
|------------------------|-----------|---------------|-----------------------|---------------------------|----------|----------------------------|------------|--------------|------------|---------------|----|-------------|--------|-------|--------------------|-----------------------|
| MCFGPD BOPD            |           |               |                       |                           |          |                            |            |              |            |               |    |             |        |       |                    |                       |
| DELAWARE COUNTY (con.) |           |               |                       |                           |          |                            |            |              |            |               |    |             |        |       |                    |                       |
| 164                    | Brown     | L 5 (4Q)      | 1103 SL 912 EL        | Simcox Oil Co.            | 1        | D. L. Thomas               | 9-25       | Dor          | --         | --            | -- | --          | NWC    | CT    | Lost hole 1812 ft. |                       |
| 165                    | Berlin    | L 6 (4Q)      | 231 SL 4965 EL        | Mrs. Delma Santoro        | 1-B      | J. & I. Smith              | 10-12      | €cr          | --         | --            | -- | 2872        | FWC    | CT    | Replaces P-141     |                       |
| 166                    | Berkshire | L 11 (3Q)     | 1160 SL 1060 EL       | Blair & Morse, Inc.       | 1        | M. E. Lyons                | 9-16       | €cr          | --         | --            | -- | 3100        | FWC    | RT    |                    |                       |
| 167                    | Troy      | L 10 (1Q)     | 700 SL 1340 WL        | Petro-Lewis, Ltd.         | 1        | Avery et al                |            |              |            |               |    |             | FWC    | CT    | Abd. loc.          |                       |
| 168                    | Delaware  | (4Q)          | 7038 NL 4892 WL       | C. J. Rider               | 1        | Salvador Granato           |            |              |            |               |    |             | Pool   | RT    | Abd. loc.          |                       |
| 169                    | Brown     | L 21 (1Q)     | 1400 SL 440 EL        | Tom Whittington, Jr.      | 1        | J. & H. Fleming            | 9-16       | €cr          | --         | --            | -- | 2865        | FWC    | RT    |                    |                       |
| 170                    | Berlin    | L 5 (4Q)      | 834 SL 4890 EL        | Mrs. Delma Santoro        | 1        | G. E. LeVeque              | 11-13      | Shb?         | --         | --            | -- | --          | FWC    | RT    | Lost hole 600 ft.  |                       |
| 171                    | Trenton   | S 13          | 328 NL 330 WL         | Hadson Ohio Oil Co.       | 1        | H. & K. Clevenger          | 10-18      | €cr          | Acid       | --            | -- | 40          | 3565   | FWC   | RT                 | Discovery             |
| 172                    | Trenton   | S 2 (1Q)      | 3270 SL 1850 WL       | Hadson Ohio Oil Co.       | 1        | E. G. Richardson           | 9-21       | €cr          | --         | --            | -- | 3601        | FWC    | RT    |                    |                       |
| 173                    | Scioto    | VMSL 12994    | 1490 SL 1142 EL       | Harold Sparks             | 1        | R. C. Newhouse             |            |              |            |               |    |             | FWC    | CT    | Active             |                       |
| 174                    | Porter    | L 14 (1Q)     | 1600 NL 495 EL        | James A. Gibson           | 1        | W. A. Lathrop              | 9-27       | €cr          | Acid       | --            | -- | 30          | 3666   | NWC   | RT                 | Discovery             |
| 175                    | Kingston  | S 3           | 230 SL 786 WL         | Richard Pryer             | 1        | H. L. Tennant              |            |              |            |               |    |             | Pool   | CT    | Active             |                       |
| 176                    | Brown     | L 29 (2Q)     | 58 NL 594 WL          | Dee Oil Co.               | 1        | R. & C. Radabaugh          | 9-24       | €cr          | --         | --            | -- | 2781        | Pool   | RT    |                    |                       |
| 177                    | Porter    | L 14 (1Q)     | 1600 NL 955 EL        | James A. Gibson           | 2        | W. A. Lathrop              | 9-27       | €cr          | --         | --            | -- | 25          | 3670   | Pool  | RT                 |                       |
| 178                    | Genoa     | L 20 (3Q)     | 860 SL 2360 WL        | B. A. Floto & Assoc.      | 1        | Chandler, Linge, & Mackley | 10-21      | €cr          | --         | --            | -- | --          | 2997   | FWC   | CT                 |                       |
| 179                    | Orange    | L 23 (3Q)     | 435 NL 285 EL         | James Ridgeway            | 3        | McComis                    | 10-7       | €cr          | --         | --            | -- | --          | 2838   | FWC   | RT                 |                       |
| 180                    | Troy      | L 1 (2Q)      | 1640 NL 1890 EL       | B. A. Floto & Assoc.      | 1        | R. P. Hills                | 12-5       | €cr          | --         | --            | -- | --          | 2561   | FWC   | CT                 |                       |
| 181                    | Porter    | L 7           | 1288 SL 230 WL        | Southern Indep. O. & R.   | 1        | Butler Kelsay              | 11-27      | €cr          | --         | --            | -- | --          | 3725   | FWC   | CT                 |                       |
| 182                    | Liberty   | L 1 (1Q)      | 720 SL 2280 EL        | Calvert Eastern Dlg.      | 1        | E. V. O'Dell               | 10-4       | €cr          | --         | --            | -- | --          | 2562   | FWC   | RT                 |                       |
| 183                    | Trenton   | L E (3Q)      | 330 NL 330 EL         | Oxford Oil Co.            | 1        | L. & B. Longshore          | 10-15      | €cr          | --         | --            | -- | --          | 3452   | FWC   | CT                 |                       |
| 184                    | Thompson  | L 27          | 8960 SL 10080 WL Twp. | Kin-Ark Oil Co.           | 1        | B. & H. Young              | 10-9       | €cr          | --         | --            | -- | --          | 2311   | FWC   | RT                 |                       |
| 185                    | Scioto    | L 8           | 437 SL 342 EL         | Mid-Ohio O. & G. Devel.   | 2        | D. & M. Brown              | 12-?       | €cr          | --         | --            | -- | --          | 2291   | FWC   | CT                 |                       |
| 186                    | Orange    | L 13          | 8530 SL 3440 WL       | B. A. Floto & Assoc.      | 1        | Nationwide Devel. Co.      | 10-11      | €cr          | --         | --            | -- | --          | 2800   | FWC   | RT                 |                       |
| 187                    | Delaware  | L 9 (4Q)      | 230 NL 1420 WL        | Walter Duncan             | 1        | M. & G. Sonner             | 10-15      | €cr          | --         | --            | -- | --          | 2632   | Pool  | RT                 |                       |
| 188                    | Berkshire | L 4 (1Q)      | 695 SL 3589 WL        | Kin-Ark Oil Co.           | 1        | J. & E. Shultz             | 10-8       | €cr          | --         | --            | -- | --          | 3175   | NWC   | RT                 |                       |
| 189                    | Delaware  | L 8 (4Q)      | 409 SL 1732 EL        | Skiles Cen. Ohio Explor.  | 2-H      | L. & H. Hough              | 10-25      | €cr          | --         | --            | -- | --          | 2608   | Pool  | RT                 | SWDW 12-10            |
| 190                    | Porter    | L 11 (3Q)     | 1385 NL 4556 EL       | C. E. Brehm               | 1        | Callie Reynolds            | 10-21      | €cr          | Acid       | --            | -- | 20          | 3362   | FWC   | RT                 | Wtr. 40 BPD Discovery |
| 191                    | Porter    | L 3 (1Q)      | 583 SL 669 EL         | Dock Oil Prod., Inc.      | 1        | P. & E. Elfrink            | 12-28      | €cr          | --         | --            | -- | --          | 3688   | NWC   | CT                 |                       |
| 192                    | Brown     | L 4 (3Q)      | 0 SL 1675 EL          | Baron Kidd                | 1        | A. H. Skinner (Hatten)     | 11-14      | S            | --         | --            | -- | --          | --     | NWC   | CT                 | Lost hole 565 ft.     |
| 193                    | Porter    | L 1 (4Q)      | 770 SL 188 WL         | Thurlow Weed              | 1        | P. & N. Corna              | 10-22      | €cr          | --         | --            | -- | --          | 3693   | FWC   | CT                 |                       |
| 194                    | Trenton   | L 31 (3Q)     | 1450 SL 800 EL        | Wilhite & McGahee         | 1        | Cring-Dewitt               | 12-11      | €cr          | --         | --            | -- | --          | 3350   | FWC   | RT                 |                       |
| 195                    | Porter    | L 12 (1Q)     | 230 SL 750 EL         | Robert W. Collins         | 1        | P. & E. Elfrink            |            |              |            |               |    |             | FWC    | CT    | Active             |                       |
| 196                    | Trenton   | L 23 (4Q)     | 250 SL 436 EL         | Mt. Carmel Dlg. Co.       | 1        | E. M. Taylor               | 11-20      | €cr          | --         | --            | -- | --          | 3645   | FWC   | RT                 |                       |
| 197                    | Berkshire | L 5 (3Q)      | 260 NL 1650 WL        | Algonquin Pet. Co.        | 1        | H. & O. Truxall            | 11-7       | €cr          | --         | --            | -- | --          | 3025   | Pool  | RT                 |                       |
| 198                    | Berkshire | L 15 (4Q)     | 618 NL 4800 WL        | T. J. Hobson              | 1        | Kuntzman                   | 11-2       | €cr          | --         | --            | -- | --          | 3150   | NWC   | RT                 |                       |
| 199                    | Brown     | L 16 (4Q)     | 610 SL 230 EL         | Kenneth W. Hopkins        | 1        | N. L. Potter               | 12-1       | Ocn          | --         | --            | -- | --          | 1750   | Out   | CT                 |                       |
| 200                    | Berkshire | L 3 (3Q)      | 230 SL 3320 EL        | Skiles Cen. Ohio Explor.  | 2        | B. C. Alexander            | 11-9       | €cr          | --         | --            | -- | --          | 3044   | Pool  | RT                 |                       |
| 201                    | Berkshire | L 10 (3Q)     | 146 SL 1660 EL        | Blair & Morse, Inc.       | 2        | Mary Lyon                  | 11-7       | €cr          | --         | --            | -- | --          | 3116   | NWC   | RT                 |                       |
| 202                    | Porter    | L 11          | 1669 SL 1848 WL       | Charles E. Beck           | 1        | C. R. Cheadle              | 11-22      | €cr          | --         | --            | -- | --          | 3288   | FWC   | RT                 |                       |
| 203                    | Brown     | L 15 (4Q)     | 785 NL 2900 WL        | Killbuck Dlg.; Parma Pet. | 2        | R. G. Wolfinger            |            |              |            |               |    |             | FWC    | CT    | Active             |                       |

LIST OF OPERATIONS DURING 1964

| Permit Number          | Township  | Land Division               | Location              | Operator                 | Well No. | Lease                 | Date Comp.   | Deepest Unit | Type Comp. | Initial Prod. |          | Total Depth   | Class. | Tools | Remarks           |  |
|------------------------|-----------|-----------------------------|-----------------------|--------------------------|----------|-----------------------|--------------|--------------|------------|---------------|----------|---------------|--------|-------|-------------------|--|
|                        |           |                             |                       |                          |          |                       |              |              |            |               | MCFGPD   | BOPD          |        |       |                   |  |
| DELAWARE COUNTY (con.) |           |                             |                       |                          |          |                       |              |              |            |               |          |               |        |       |                   |  |
| 204                    | Berlin    | L 25 (1Q)                   | 400 SL 1180 WL        | Sentinel Oil Co.         | 1        | E. H. Dunham          |              |              |            |               |          |               |        |       |                   |  |
| 205                    | Thompson  | L 37 J. Clark<br>Surv. 5750 | 1287 NL 1400 EL       | Don Baines Dlg. Co.      | 1        | Zimmerman-Schmitt     | 11-12        | €cr          | --         | --            | --       | 2541          | FWC    | CT    | Abd. loc.         |  |
| 206                    | Berlin    | L 6 (4Q)                    | 1270 NL 4710 WL       | Algonquin Pet. Co.       | 1        | Siemons-Marshall      | 11-19        | €cr          | --         | --            | --       | 2803          | FWC    | RT    | Active            |  |
| 207                    | Berkshire | L 4                         | 6020 NL 3570 WL       | Federal O. & G. Co.      | 1        | J. & M. Igo           |              |              |            |               |          |               | FWC    | CT    |                   |  |
| 208                    | Thompson  | L 3                         | 6000 SL 7060 WL Twp.  | Don Baines Dlg. Co.      | 1        | H. & M. Dreyer        | 11-19        | €cr          | --         | --            | --       | 2272          | FWC    | RT    |                   |  |
| 209                    | Trenton   | L 7 (2Q)                    | 91 SL 1970 WL         | Wilhite & McGahee        | 1        | J. B. Landon          | 12-2         | €cr          | --         | --            | --       | 3329          | NWC    | RT    |                   |  |
| 210                    | Genoa     | L 6 (1Q)                    | 745 NL 1770 EL        | Clifton B. Lewis         | 2        | Paul Everts           | 12-30        | €cr          | --         | --            | --       | 3325          | FWC    | CT    |                   |  |
| 211                    | Porter    | L 1 (3Q)                    | 330 SL 1165 WL        | Lohmann-Johnson Dlg.     | 1        | E. L. Curtis          | 12-14        | €cr          | --         | --            | --       | 3480          | NWC    | RT    |                   |  |
| 212                    | Berlin    | L 26 (2Q)                   | 250 NL 350 WL         | Lohmann-Johnson Dlg.     | 1        | M. & M. Havens        | 12-3         | €cr          | --         | --            | --       | 2800          | FWC    | RT    |                   |  |
| 213                    | Porter    | L 16 (2Q)                   | 330 NL 2110 WL        | Brinkerhoff Dlg. Co.     | 1        | W. & E. Braley        | 12-1         | €cr          | --         | --            | --       | 3577          | Pool   | RT    |                   |  |
| 214                    | Concord   | L 37 (2Q)                   | 84 SL 660 EL          | Hampton, Ltd.            | 1        | Dilger, Thomas, Watts |              |              |            |               |          |               | FWC    | CT    | Active            |  |
| 215                    | Berkshire | L 16 (4Q)                   | 6625 SL 1386 EL       | Delaco Pet., Inc.        | 1        | H. & H. Nincehelser   | 12-17        | €cr          | --         | --            | --       | 3084          | NWC    | RT    |                   |  |
| 216                    | Kingston  | L 17 (1Q)                   | 550 NL 1813 EL        | O. A. Sutton             | 1        | O. C. Murphy          | 11-28        | €cr          | --         | --            | --       | 3376          | NWC    | RT    |                   |  |
| 217                    | Brown     | L 4 (3Q)                    | 3300 NL 1690 EL       | Barron Kidd              | 1-A      | A. H. Skinner         | 12-8         | Ocn          | --         | --            | --       | 1708          | NWC    | CT    |                   |  |
| 218                    | Orange    | L 2 (2Q)                    | 10770 NL 5950 WL Twp. | Barron Kidd              | 1        | D. A. Gooding         |              |              |            |               |          |               | FWC    | CT    | Active            |  |
| 220                    | Brown     | L 5 (2Q)                    | 995 SL 990 EL         | Clifton B. Lewis         | 1        | D. & M. Wells         |              |              |            |               |          |               | FWC    | CT    | Active            |  |
| 221                    | Genoa     | L 7 (2Q)                    | 5075 SL 3125 EL Twp.  | Tower Oil Co.            | 1        | R. & V. Mason         |              |              |            |               |          |               | FWC    | CT    |                   |  |
| 222                    | Oxford    | L 7 (4Q)                    | 1213 SL 448 EL        | H & K Ventures           | 1        | R. A. Bell et al      | 12-7         | €cr          | --         | --            | --       | 3104          | NWC    | RT    |                   |  |
| 223                    | Brown     | L 26 (3Q)                   | 2443 NL 721 WL        | Kin-Ark Oil Co.          | 1        | M. O. Stone           | 12-19        | €cr          | --         | --            | --       | 2750          | FWC    | RT    |                   |  |
| 224                    | Kingston  | L 18 (4Q)                   | 350 SL 1240 WL        | McClure Oil Co.          | 1        | G. B. Hill            | 12-16        | €cr          | --         | --            | --       | 3380          | NWC    | RT    |                   |  |
| 225                    | Kingston  | L 3-N                       | 2300 NL 5200 EL Twp.  | Mutual O. & G. Co.       | 1        | W. W. Blayney         | 12-15        | €cr          | --         | --            | --       | 3388          | NWC    | RT    |                   |  |
| 226                    | Kingston  | L 10 (3Q)                   | 780 SL 1459 EL        | Roy G. Gordon, Jr.       | 1        | C. E. Walton          | 12-18        | €cr          | --         | --            | --       | 3185          | FWC    | RT    |                   |  |
| 227                    | Genoa     | L 11 (3Q)                   | 1200 NL 600 WL        | Hadson Ohio Oil Co.      | 1        | P. E. Martin          |              |              |            |               |          |               | FWC    | RT    | Active            |  |
| 228                    | Brown     | L 32 (3Q)                   | 618 NL 133 WL         | Southern Triangle Oil    | 2        | R. F. Dix Estate      | 12-29        | €cr          | --         | --            | --       | 2843          | FWC    | RT    |                   |  |
| 229                    | Berlin    | L 17 (1Q)                   | 350 NL 640 EL         | Kin-Ark Oil Co.          | 1        | E. Shade              |              |              |            |               |          |               | FWC    | RT    | Active            |  |
| 230                    | Brown     | L 21 (1Q)                   | 819 NL 230 WL         | Tom Whittington, Jr.     | 2        | L & H. Flemming       |              |              |            |               |          |               | FWC    | RT    | Active            |  |
| 231                    | Orange    | L 1                         | 7200 NL 775 EL Twp.   | Kin-Ark Oil Co.          | 1        | H. & R. Jaycox        |              |              |            |               |          |               | FWC    | RT    |                   |  |
| 232                    | Delaware  | L 4 (4Q)                    | 562 SL 1540 WL        | Federal O. & G. Co.      | 1        | P. T. Williams        |              |              |            |               |          |               | Pool   | CT    | Active            |  |
|                        |           | SUMMARY                     | GAS-1* OIL-16*        | COMBINATION-0            |          | DRY-153 TOTAL-170*    |              |              |            | 4, 435        | 817      | 502, 332 FEET |        |       |                   |  |
| OLD WELL WORKED OVER   |           |                             |                       |                          |          |                       |              |              |            |               |          |               |        |       |                   |  |
| 15                     | Oxford    | L 4 (4Q)                    | 330 NL 460 WL         | M. S. B. Oil Co.         | 1        | Don Rodgers           | 1963<br>4-27 | €ma<br>€ms   | --<br>--   | --<br>--      | --<br>-- | 3250<br>3786  | FWC    | CT    | New footage-536   |  |
|                        |           | SUMMARY                     | WORKED OVER-1         |                          |          |                       |              |              |            |               |          |               |        |       |                   |  |
| DISPOSAL WELL          |           |                             |                       |                          |          |                       |              |              |            |               |          |               |        |       |                   |  |
| 1 (189)                | Delaware  | L 8 (4Q)                    | 409 SL 1732 EL        | Skiles Cen. Ohio Explor. | 2-H      | L. & M. Hough         | 10-25        | €cr          | --         | --            | --       | 2608          | Pool   | RT    | SWDW Permit 12-10 |  |
|                        |           | SUMMARY                     | DISPOSAL-1            |                          |          |                       |              |              |            |               |          |               |        |       |                   |  |

## SUMMARY OF OIL AND GAS ACTIVITY IN 1964

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location              | Operator                                  | Well No. | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks    |
|----------------------|------------|---------------|-----------------------|---|----------|-----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|------------|
|                      |            |               |                       |   |          |                       |            |              |            | MCFGPD        | BOPD |             |        |       |            |
| FAYETTE COUNTY       |            |               |                       |   |          |                       |            |              |            |               |      |             |        |       |            |
| 7                    | Perry      | VMSL 660      | 4670 NE 450 NW SW     | Barnwell Prod. Co.                        | 1        | M. Cockrill           | 9-7        | €ms          | --         | --            | --   | 3643        | FWC    | RT    |            |
|                      |            | SUMMARY       | GAS-0 OIL-0           | COMBINATION-0                             |          | DRY-1 TOTAL-1         |            |              |            | 0             | 0    | 3,643       | FEET   |       |            |
| FRANKLIN COUNTY      |            |               |                       |   |          |                       |            |              |            |               |      |             |        |       |            |
| 4                    | Truro      | S 8           | 2250 SL 963 WL SW     | Joseph W. Hemphill                        | 1        | J. W. Hemphill        |            |              |            |               |      |             | FWC    | RT    | Canceled   |
| 5                    | Washington | VMSL 2542     | 1021 NL 603 WL        | Raymond Brinkley                          | 1        | Lillian Orr           | 6-4        | €cr          | --         | --            | --   | 2850        | FWC    | CT    |            |
| 6                    | Perry      | S 3           | 4250 NL 560 WL Twp.   | J. D. Adams                               | 1        | Riverside Estates     | 8-9        | €cr          | --         | --            | --   | 2500        | FWC    | RT    |            |
| 7                    | Pleasant   | VMSL 3028     | 3209 NL 11960 EL Twp. | Barnwell Prod. Co.                        | 1        | Oakhurst Country Club | 8-8        | €cr          | --         | --            | --   | 3753        | FWC    | RT    | Active     |
| 8                    | Pleasant   |               | 4840 NL 2500 WL Twp.  | Madison Co. Enterprises                   | 1        | N. Shipley            |            |              |            |               |      |             | FWC    | RT    |            |
| 9                    | Washington | VMSL 2542     | 1481 NL 624 WL        | Raymond Brinkley                          | 2        | Lillian Orr           | 8-15       | €cr          | --         | --            | --   | 2997        | FWC    | CT    |            |
| 10                   | Jackson    | VMSL 6115     | 2310 NL 800 EL        | Pure Oil Co.                              | 1        | P. R. Patzer          | 10-17      | €ms          | --         | --            | --   | 3710        | FWC    | RT    | Active     |
| 11                   | Madison    | S 13          | 2470 NL 1026 EL NE    | Kingwood Oil Co.                          | 1        | R. & L. Reeb          | 11-12      | €cr          | Acid       | --            | --   | 3200        | FWC    | RT    |            |
| 12                   | Jackson    | VMSL 1294     | 4310 SL 660 WL Twp.   | Hammerstone Oil Co. & Hadson Ohio Oil Co. | 1        | Cora Athey            | 12-20      | €cr          | --         | --            | --   | 2715        | FWC    | RT    |            |
| 13                   | Madison    | S 13          | 2470 NL 1598 EL NE    | Kingwood Oil Co.                          | 2        | R. & L. Reeb          |            |              |            |               |      |             | FWC    | RT    | Active     |
|                      |            | SUMMARY       | GAS-0 OIL-0           | COMBINATION-0                             |          | DRY-7 TOTAL-7         |            |              |            | 0             | 0    | 21,725      | FEET   |       |            |
| FULTON COUNTY        |            |               |                       |   |          |                       |            |              |            |               |      |             |        |       |            |
| 23                   | York       | S 36          | 660 NL 1980 EL SE     | Johnson Oil Co.                           | 1        | H. & M. Wittenberg    | 10-12      | €            | --         | --            | --   | 2793        | FWC    | CT    | Active     |
| 24                   | Gorham     | S 19          | 335 SL 3950 WL        | McClure Oil Co.                           | 1        | B. V. Gamble          |            |              |            |               |      |             | FWC    | CT    |            |
|                      |            | SUMMARY       | GAS-0 OIL-0           | COMBINATION-0                             |          | DRY-1 TOTAL-1         |            |              |            | 0             | 0    | 2,793       | FEET   |       |            |
| GALLIA COUNTY        |            |               |                       |   |          |                       |            |              |            |               |      |             |        |       |            |
| 120                  | Perry      | S 15          | 989 SL 308 WL SW      | John H. Trigg Co.                         | 2        | A. Reese              | ?          | Mbe          | --         | --            | --   | 1453        | SPWC   | CT    |            |
|                      |            | SUMMARY       | GAS-0 OIL-0           | COMBINATION-0                             |          | DRY-1 TOTAL-1         |            |              |            | 0             | 0    | 1,453       | FEET   |       |            |
| OLD WELL WORKED OVER |            |               |                       |   |          |                       |            |              |            |               |      |             |        |       |            |
| 22-A                 | Perry      | S 16          | 1269 SL 112 EL        | John H. Trigg Co.                         | 1        | T. Reese              | 1928 11-17 | Sal Mbe      | -- ?       | -- ?          | -- ? | 3411 1316   | Pool   | CT    | Gas 25 MCF |
|                      |            | SUMMARY       | WORKED OVER-1         |   |          |                       |            |              |            |               |      |             |        |       |            |
|                      |            |               |                       |   |          |                       |            |              |            |               |      |             |        |       |            |

## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township  | Land Division | Location        |       | Operator                 | Well No. | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                           |
|---------------------|-----------|---------------|-----------------|-------|--------------------------|----------|------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-----------------------------------|
|                     |           |               |                 |       |                          |          |                        |            |              |            | MCFGPD        | BOPD |             |        |       |                                   |
| GUERNSEY COUNTY     |           |               |                 |       |                          |          |                        |            |              |            |               |      |             |        |       |                                   |
| 796                 | Wills     | S 25          | 675 NL 1150 EL  | NE    | Well Supervision, Inc.   | 1        | Guernsey Co. Infirmary | 1-18       | Pcr          | --         | --            | --   | 605         | Pool   | CT    | Canceled<br>Gas 50 MCF            |
| 797                 | Wills     | S 5           | 919 NL 1014 WL  | NW    | T. Jackson Hawkins       | 1        | A. & E. Bonnel         | 1-27       | Pcr          | --         | --            | --   | 175         | FWC    | CT    |                                   |
| 798                 | Wills     | S 5           | 1380 NL 879 WL  | NW    | T. Jackson Hawkins       | 2        | A. & E. Bonnel         |            |              |            |               |      |             | FWC    | CT    |                                   |
| 799                 | Wills     | S 25          | 463 NL 945 EL   | NE    | Well Supervision, Inc.   | 2        | Guernsey Co. Infirmary | 2-24       | Pcr          | --         | --            | --   | 485         | Pool   | CT    |                                   |
| 800                 | Wheeling  | S 1-E         | 570 SL 736 WL   | NE    | Oxford Oil Co.           | 1        | Willis Shearer         | 9-2        | Dor          | Frac       | --            | 5    | 3553        | Pool   | CT    |                                   |
| 801                 | Westland  | S 20          | 1505 SL 350 EL  | SW    | O. & G. Co.              | 2        | Messer Heirs           | 12-?       | Dor          | Frac       | --            | 15   | 3656        | Pool   | CT    |                                   |
|                     |           | SUMMARY       | GAS-0           | OIL-2 | COMBINATION-0            |          | DRY-3 TOTAL-5          |            |              |            | 0             | 20   | 8,474       | FEET   |       |                                   |
| OLD WELLS ABANDONED |           |               |                 |       |                          |          |                        |            |              |            |               |      |             |        |       |                                   |
| 249                 | Millwood  | S 22          | 633 SL 990 EL   | NE    | Ohio Fuel Gas Co.        | 2        | Charles Smith          | 1940       | Mbe          | ?          | 60            | --   | 1629        | Pool   | CT    | Abd. 2-17                         |
| 252-A               | Adams     | S 9           | 1150 NL 1347 WL | SE    | Ohio Fuel Gas Co.        | 1        | J. R. McBurney         | 1925       | Dor          | ?          | 415           | --   | 3303        | Pool   | CT    | Abd. 3-16                         |
| 284-A               | Cambridge | S 7           | 660 SL 2020 EL  | NW    | Ohio Fuel Gas Co.        | 1        | J. W. Hill             | 1926       | Snb?         | ?          | ?             | --   | 3435        | Pool   | CT    | Abd. 4-13                         |
| 522-A               | Knox      | S 19          |                 |       | Ohio Fuel Gas Co.        | 1        | J. T. Wynn             | 1928       | Snb?         | ?          | 970           | --   | 3192        | Pool   | CT    | Abd. 4-8                          |
| 697-A               | Wills     | S 20          | 20 NL 1230 WL   | SW    | Ohio Fuel Gas Co.        | 1        | C. V. Foraker          | 1934       | Mbe          | ?          | ?             | --   | 1466        | Pool   | CT    | Abd. 2-19                         |
|                     |           | SUMMARY       | ABANDONED-5     |       |                          |          |                        |            |              |            |               |      |             |        |       |                                   |
| HANCOCK COUNTY      |           |               |                 |       |                          |          |                        |            |              |            |               |      |             |        |       |                                   |
| 132                 | Pleasant  | S 14          | 1645 NL 1320 EL | NE    | Cecil A. Runyan          | 1        | Roy Stafford           | 1963       | Obr          | --         | --            | --   | 1469        | Pool   | CT    | WO 11-24 D&A                      |
| 138                 | Allen     | S 12          | 1650 NL 1650 WL | SE    | Plunkett & Shields       | 1        | V. F. Hoadley          | 7-28       | €cr          | --         | --            | --   | 1817        | FWC    | RT    |                                   |
| 139                 | Union     | S 24          | 330 SL 760 EL   | SE    | Frank M. Dever           | 1        | C. & M. Frazier        | 6-2        | PE?          | --         | --            | --   | 3017        | FWC    | CT    |                                   |
| 140                 | Amanda    | S 20          | 990 SL 330 WL   | SW    | Michael T. Cowen         | 1        | Bessie Harris          | 6-6        | PE?          | --         | --            | --   | 2797        | FWC    | RT    |                                   |
| 141                 | Portage   | S 5           | 230 SL 1205 EL  | SW    | Carr Oil Co.             | 1        | W. W. Nigh             | 7-3        | €cr          | --         | --            | --   | 2241        | FWC    | RT    |                                   |
| 142                 | Union     | S 24          | 230 NL 2000 EL  | NE    | Frank M. Dever           | 1        | C. & A. Walters        | 7-1        | €cr          | --         | --            | --   | 1949        | FWC    | CT    |                                   |
| 143                 | Eagle     | S 14          | 230 SL 890 EL   | SE    | Joseph K. O'Neill, Jr.   | 1        | W. & R. Stahl          | 8-7        | €cr          | --         | --            | --   | 2123        | FWC    | RT    |                                   |
| 144                 | Portage   | S 5           | 230 SL 230 EL   | SW    | Carr Oil Co.             | 1        | W. & R. Barker         | 8-11       | Obr          | --         | --            | --   | 1440        | Pool   | RT    |                                   |
| 145                 | Marion    | S 34          | 412 NL 326 WL   | SW    | Frank M. Dever           | 1        | A. A. Altman           | 9-20       | €cr          | --         | --            | --   | 1896        | FWC    | CT    |                                   |
| 146                 | Union     | S 25          | 280 NL 413 WL   | NE    | Frank Dever; Shannon Oil | 1        | Elmer Schwinn          | 11-7       | €cr          | --         | --            | --   | 1981        | FWC    | CT    |                                   |
|                     |           | SUMMARY       | GAS-0           | OIL-0 | COMBINATION-0            |          | DRY-10 TOTAL-10        |            |              |            | 0             | 0    | 20,728      | FEET   |       |                                   |
| HARDIN COUNTY       |           |               |                 |       |                          |          |                        |            |              |            |               |      |             |        |       |                                   |
| 79                  | Dudley    | S 4           | 585 NL 1961 EL  | NE    | McMahon-Bullington Dlg.  | 1        | G. W. Wolf             | 1-7        | €cr          | --         | --            | --   | 3002        | FWC    | RT    |                                   |
| 80                  | Goshen    | S 34          | 660 SL 660 WL   | SE    | Reliance Oil Corp.       | 1        | C. & I. Laubis         | 5-6        | €cr          | --         | --            | --   | 2310        | FWC    | CT    |                                   |
| 81                  | Dudley    | VMSL 10172    | 796 NL 3330 EL  |       | Donald Brown             | 1        | W. & R. Raap           | 5-1        | €cr          | --         | --            | --   | 2049        | FWC    | RT    |                                   |
| 82                  | Lynn      | VMSL 12096    | 2000 SL 330 EL  |       | Michael T. Cowen         | 1        | M. K. Dulin            | 6-6        | €cr          | --         | --            | --   | 2040        | FWC    | CT    |                                   |
| 83                  | Marion    | S 4           | 330 NL 330 EL   | NW    | Turtle Dlg. Co.          | 1        | C. Hubbell             | 6-25       | €cr          | --         | --            | --   | 2037        | FWC    | CT    |                                   |
| 84                  | Roundhead | VMSL 12277    | 4200 SL 6830 WL | Twp.  | Runyon & Vivirski        | 1        | T. & W. Mulholland     |            |              |            |               |      |             | Pool   | CT    | Abd. loc.<br>PB to Ot             |
| 85                  | McDonald  | VMSL 10221    | 2450 NL 420 EL  |       | Richard Pryer            | 1        | L. & A. Lenhart        | ?          | €cr          | Shot       | --            | 14   | 1976        | FWC    | CT    |                                   |
| 86                  | Blanchard | S 34          | 990 SL 990 EL   | SW    | J. D. Turner             | 1        | H. & T. Lotz           | 8-30       | €cr          | --         | --            | --   | 2002        | FWC    | CT    | Wtr. 6 BPD. PB to Ot<br>Discovery |
| 87                  | Dudley    | VMSL 15523    | 613 SL 1212 EL  |       | R. E. Williams           | 1        | H. & D. Elsasser       | 9-2        | €cr          | --         | --            | --   | 1864        | FWC    | CT    |                                   |
| 88                  | McDonald  | VMSL 10221    | 1060 NL 252 EL  |       | Richard Pryer            | 1        | D. & F. Zeigler        | 10-15      | €cr          | Acid       | --            | 4    | 1952        | FWC    | CT    |                                   |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location              | Operator               | Well No. | Lease               | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                                      |
|----------------------|------------|---------------|-----------------------|------------------------|----------|---------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--|
|                      |            |               |                       |                        |          |                     |            |              |            | MCFGPD        | BOPD |             |        |       |  |
| HARDIN COUNTY (con.) |            |               |                       |                        |          |                     |            |              |            |               |      |             |        |       |  |
| 89                   | Goshen     | S 7           | 990 SL 330 WL SW      | J. D. Turner           | 1        | R. A. Winebrenner   | 10-15      | €cr          | --         | --            | --   | 2180        | FWC    | CT    | Abd. loc.                                    |
| 90                   | McDonald   | VMSL 10068    | 370 NL 617 WL         | T. & W. Oil Co.        | 1        | W. & M. Sheppard    |            |              |            |               |      |             | FWC    | CT    |  |
| 91                   | Jackson    | S 24          | 990 SL 330 WL SW      | J. D. Turner           | 1        | D. J. Kellogg       | 12-29      | €cr          | --         | --            | --   | 1641        | FWC    | CT    | Discovery                                    |
| 92                   | Roundhead  | VMSL 10124    | 590 NL 330 WL         | E. & R. Vivirski       | 1        | Howard Thompson     | 11-29      | Ot           | Nat        | 280           | --   | 1468        | FWC    | CT    |  |
| 93                   | McDonald   | VMSL 11068    | 17000 SL 8120 WL Twp. | Richard Pryer          | 1        | M. F. Hites         | 12-24      | €cr          | --         | --            | --   | 2026        | FWC    | CT    |  |
| 94                   | Buck       | VMSL 10046    | 1125 SL 370 EL        | Cal-O-Tex Co.          | 1        | J. A. Salyer        | 10-25      | €cr          | --         | --            | --   | 2023        | FWC    | RT    | Abd. loc.                                    |
| 95                   | Hale       | VMSL 12280    | 330 NL 990 WL         | Kenneth W. Hopkins     | 1        | R. & I. Stephenson  |            |              |            |               |      |             | FWC    | CT    |  |
| 96                   | Roundhead  | VMSL 12277    | 3500 SL 3640 EL Twp.  | Runyon Dig. Co.        | 1        | B. Zimmerman        |            |              |            |               |      |             | Pool   | CT    | Active                                       |
|                      |            | SUMMARY       | GAS-1 OIL-2           | COMBINATION-0          |          | DRY-11 TOTAL-14     |            |              |            | 280           | 18   | 28,570      | FEET   |       |  |
| HENRY COUNTY         |            |               |                       |                        |          |                     |            |              |            |               |      |             |        |       |  |
| 21                   | Monroe     | S 5           | 280 SL 354 EL SW      | Bell & Gault Dig.      | 1        | A. & B. Biggs       | 12-12      | €cr          | --         | --            | --   | 2385        | FWC    | CT    |  |
|                      |            | SUMMARY       | GAS-0 OIL-0           | COMBINATION-0          |          | DRY-1 TOTAL-1       |            |              |            | 0             | 0    | 2,385       | FEET   |       |  |
| HIGHLAND COUNTY      |            |               |                       |                        |          |                     |            |              |            |               |      |             |        |       |  |
| 4                    | Penn       | L 2326        | 2150 NL 2480 EL       | Amerada Pet. Co.       | 1        | W. Wright           | 12-8       | €            | --         | --            | --   | 2392        | FWC    | RT    |  |
|                      |            | SUMMARY       | GAS-0 OIL-0           | COMBINATION-0          |          | DRY-1 TOTAL-1       |            |              |            | 0             | 0    | 2,392       | FEET   |       |  |
| HOCKING COUNTY       |            |               |                       |                        |          |                     |            |              |            |               |      |             |        |       |  |
| 1039                 | Falls      | S 3           | 1660 NL 100 EL NE     | Anderson & Gisinger    | 1        | Mable Higgins       |            |              |            |               |      |             | Pool   | CT    | Canceled<br>Gas 50 MCF<br>Replaced by P-1073 |
| 1042                 | Falls Gore | S 25          | 920 NL 2030 WL NW     | Johnson & Butler       | 1        | Loyd Nixon          | 3-10       | Sal          | Frac       | --            | 20   | 3090        | Pool   | CT    |  |
| 1043                 | Benton     | S 2           | 330 SL 60 EL NW       | Anderson & Gisinger    | 1        | C. Burns            |            |              |            |               |      |             | Pool   | CT    |  |
| 1044                 | Benton     | S 2           | 275 SL 330 WL SE      | Anderson & Gisinger    | 1        | T. & M. Fickenscher | 1-25       | Sal          | Frac       | 209           | --   | 2478        | Pool   | CT    |  |
| 1062                 | Falls      | S 1           | 900 SL 400 EL SE      | Brown Oil Co.          | 3        | H. & J. Brown       | 1-23       | Sal          | Frac       | --            | 20   | 2690        | Pool   | CT    | Gas 50 MCF                                   |
| 1071                 | Falls      | S 1           | 1800 SL 260 EL SE     | Pipe Service Co.       | 3        | C. B. Sutton        |            |              |            |               |      |             | Pool   | CT    | Canceled<br>Canceled                         |
| 1072                 | Green      | S 30          | 2300 NL 100 EL NE     | Pipe Service Co.       | 1        | J. Swick            |            |              |            |               |      |             | Pool   | CT    |  |
| 1073                 | Benton     | S 2           | 330 SL 60 EL NW       | Anderson Investments   | 1        | C. Burns            | 4-22       | Sal          | Frac       | --            | --   | 2552        | Pool   | CT    | Gas 17 MCF                                   |
| 1074                 | Falls Gore | S 32          | 300 SL 300 WL SE      | Pipe Service Co.       | 1        | Orlan Mohler        | ?          | Sal          | Frac       | 800           | --   | 2988        | Pool   | CT    |  |
| 1075                 | Falls Gore | S 30          | 841 SL 86 WL SW       | Stewart Oil Co.        | 3        | C. D. Coakley       | 6-22       | Sal          | Frac       | --            | 32   | 2877        | Pool   | CT    | Gas 50 MCF                                   |
| 1076                 | Falls      | S 3           | 1665 NL 525 WL SE     | Well Investments, Inc. | 3        | Robert Beougher     | 7-21       | Sal          | Frac       | 100           | 50   | 2751        | Pool   | CT    | Gas 29 MCF                                   |
| 1077                 | Falls Gore | S 36          | 890 SL 990 EL NE      | Ridge Oil Co.          | 6        | U. S. A.            | 7-24       | Sal          | Frac       | 100           | 40   | 3277        | Pool   | CT    |  |
| 1078                 | Washington | S 1           | 1349 NL 230 WL SW     | Anderson Investments   | 1        | Harry Armstrong     | 8-28       | Sal          | Frac       | 310           | 10   | 2895        | Pool   | CT    |  |
| 1079                 | Washington | S 12          | 764 SL 1601 WL SE     | Anderson Investments   | 1        | Oscar Reinshell     | 8-17       | Sal          | Frac       | --            | 50   | 2921        | Pool   | CT    |  |
| 1080                 | Falls Gore | S 30          | 500 NL 1150 EL NE     | Oxford Oil Co.         | 3        | H. Howdyshehl       | 9-9        | Sal          | Frac       | 500           | 10   | 2922        | Pool   | CT    |  |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964



## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township   | Land Division | Location        | Operator | Well No.                                | Lease  | Date Comp.                     | Deepest Unit  | Type Comp. | Initial Prod. MCFGPD | BOPD      | Total Depth | Class.       | Tools | Remarks    |
|-----------------------|------------|---------------|-----------------|----------|---|--------|--------------------------------|---------------|------------|----------------------|-----------|-------------|--------------|-------|------------|
| HOCKING COUNTY (con.) |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       |            |
| 1081                  | Washington | S 2           | 330 SL 330 EL   | NW       | Petrol Servicing, Inc.                  | 1      | Dorothy Pederson               | 9-24          | Sal        | --                   | --        | 2842        | Pool         | CT    |            |
| 1082                  | Falls      | S 2           | 330 NL 660 EL   | SW       | Holl Bros.                              | 2      | Elza Hart                      | 7-2           | Sal        | Frac                 | 100       | 60          | 2840         | Pool  | CT         |
| 1083                  | Falls Gore | S 30          | 2200 NL 375 EL  | NE       | Oxford Oil Co.                          | 2      | E. & J. Wohrle                 | 7-28          | Sal        | Frac                 | 200       | 30          | 2882         | Pool  | CT         |
| 1084                  | Green      | S 4           | 1213 SL 580 WL  | SE       | Chute Estate                            | 3-A    | Chute Estate                   | 6-27          | Mbe        | Shot                 | 200       | 1           | 800          | Pool  | CT         |
| 1085                  | Falls Gore | S 28          | 460 NL 935 WL   | NW       | Stone O. & G. Co.                       | 1      | J. O. Burgess                  | 9-24          | Dor        | Acid                 | --        | 6           | 1950         | Pool  | CT         |
|                       |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       | Gas 30 MCF |
| 1086                  | Ward       | S 33          | 100 NL 330 WL   | SW       | Well Investments, Inc.                  | 2      | Lee Rutherford                 | 10-10         | Sal        | Frac                 | 3000      | --          | 3253         | Pool  | CT         |
| 1087                  | Starr      | S 34          | 2356 SL 275 EL  | SE       | Anderson Investments                    | 1      | M. E. Woodard                  |               |            |                      |           |             |              | Pool  | CT         |
| 1088                  | Washington | S 13          | 2400 NL 230 EL  | NE       | Anderson Investments                    | 1      | R. H. Farrar                   |               |            |                      |           |             |              | Pool  | CT         |
| 1089                  | Falls      | S 3           | 990 NL 330 EL   | SW       | Holl Bros.                              | 2      | J. Robertson                   | 9-29          | Sal        | Frac                 | 100       | 50          | 2747         | Pool  | CT         |
| 1090                  | Falls      | S 3           | 100 NL 330 EL   | SE       | Hocking Gas Co.                         | 1      | C. W. Goss                     | 10-15         | Sal        | Frac                 | --        | 35          | 2710         | Pool  | CT         |
|                       |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       | Gas 50 MCF |
| 1091                  | Falls Gore | S 28          | 2330 SL 990 EL  | SE       | Stone O. & G. Co.                       | 1      | Hal Saunders                   | 11-3          | Sal        | Frac                 | 500       | 5           | 2905         | Pool  | CT         |
| 1092                  | Falls Gore | S 28          | 1470 NL 2150 WL | NW       | Stone O. & G. Co.                       | 1      | C. D. Wolfe                    | 10-13         | Sal        | Frac                 | 200       | 30          | 2922         | Pool  | CT         |
| 1093                  | Washington | S 2           | 1110 SL 565 EL  | SE       | B. H. Mills et al                       | 1      | Ralph Wharton                  | 10-26         | Sal        | Frac                 | --        | 40          | 2884         | Pool  | CT         |
| 1094                  | Falls Gore | S 29          | 1650 NL 600 WL  | NW       | Oxford Oil Co.                          | 2      | Herbert Glick                  | 10-24         | Sal        | Frac                 | 150       | 30          | 2908         | Pool  | CT         |
| 1095                  | Starr      | S 35          | 1070 SL 665 WL  | SW       | Anderson Investments                    | 1-A    | H. L. Armstrong                | 12-11         | Sal        | Frac                 | 108       | 10          | 2894         | Pool  | CT         |
|                       |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       |            |
| 1096                  | Washington | S 12          | 1722 SL 1000 EL | SE       | Anderson Investments                    | 2      | Oscar Reinshell                |               |            |                      |           |             |              | Pool  | CT         |
| 1097                  | Ward       | S 23          | 650 NL 678 EL   | NW       | H. D. Collins                           | 1-C    | Sunday Creek Coal Co.          | 12-20         | Sal        | Frac                 | 275       | 50          | 3400         | Pool  | CT         |
| 1098                  | Ward       | S 20          | 3828 NL 590 WL  | NW       | Hands Prod. Co.                         | 3      | Poston Heirs                   | 12-29         | Sal        | Frac                 | 760       | --          | 3508         | Pool  | CT         |
| 1099                  | Green      | S 1           | 1986 NL 2118 WL | NW       | Barton & Hall                           | 1      | Natco Co.                      | 12-3          | Sal        | Frac                 | 1000      | 50          | 3200         | Pool  | CT         |
| 1100                  | Ward       | S 24          | 596 SL 541 WL   | SE       | H. D. Collins                           | 2-C    | Sunday Creek Coal Co.          |               |            |                      |           |             |              | Pool  | CT         |
|                       |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       | Active     |
| 1101                  | Falls Gore | S 27          | 970 SL 365 WL   | NE       | Stone O. & G. Co.                       | 1      | Albert Wahl                    | 12-20         | Sal        | Frac                 | 200       | 20          | 3073         | Pool  | CT         |
| 1102                  | Falls      | S 3           | 1570 NL 307 EL  | SE       | Holl Bros.                              | 2      | Dan Souders                    | 12-9          | Sal        | Frac                 | 200       | 60          | 2588         | Pool  | CT         |
| 1103                  | Falls      | S 1           | 1013 NL 1152 EL | NW       | W. E. Shrider                           | 1      | W. A. Leonard                  |               |            |                      |           |             |              | Pool  | CT         |
| 1104                  | Green      | S 21          | 2397 SL 1661 WL | SW       | Kentucky Dig. & Oper.                   | 1      | Poston Heirs                   |               |            |                      |           |             |              | Pool  | CT         |
|                       |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       | Active     |
|                       |            | SUMMARY       | GAS-4 OIL-7     |          | COMBINATION-16                          |        | DRY-2 TOTAL-29                 |               |            | 9,012                | 709       | 81,847      | FEET         |       |            |
| OLD WELL WORKED OVER  |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       |            |
| 11-A                  | Green      | S 21          | 2757 SL 285 WL  |          | Chartiers Oil Co.<br>Reliance Oil Corp. | 1<br>1 | Thomas Wright<br>Thomas Wright | 1911<br>10-22 | C?<br>Sal  | --<br>Frac           | --<br>500 | --<br>30    | 4724<br>2820 | Pool  | CT         |
|                       |            | SUMMARY       | WORKED OVER-1   |          |   |        |                                |               |            |                      |           |             |              |       |            |
| OLD WELLS ABANDONED   |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       |            |
| 90                    | Good Hope  | S 27          | 2300 NL 990 WL  | NW       | City of Lancaster                       | 1      | F. Bailey (D. Bailey)          | 1945          | Sal        | ?                    | ?         | --          | 2185         | Pool  | CT         |
| 94                    | Good Hope  | S 29          | 165 SL 660 WL   | SE       | City of Lancaster                       | 1      | M. Woltz (C. Lutz)             | 1946          | Sal        | ?                    | ?         | --          | 2141         | CT    | Abd. 5-7   |
| 149                   | Good Hope  | S 28          | 920 SL 1700 EL  | SE       | City of Lancaster                       | 1      | J. Edwards (F. Edwards)        | 1947          | Sal        | ?                    | ?         | --          | 2190         | CT    | Abd. 5-5   |
| 209                   | Good Hope  | S 34          |                 |          | City of Lancaster                       | 2      | E. Kline (R. Goss)             | 1949          | Sal        | ?                    | ?         | --          | 2402         | CT    | Abd. 5-12  |
| 226                   | Benton     | S 13          | 1400 SL 815 EL  | SE       | Ohio Fuel Gas Co.                       | 11     | J. H. Earnhart                 | 1950          | Sal        | ?                    | ?         | --          | 2512         | CT    | Abd. 2-4   |
|                       |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       |            |
| 262                   | Starr      | S 10          |                 |          | Barton Holl (O'Mara)                    | 1      | Devore & Waigand               | 1951          | Sal        | ?                    | ?         | ?           | 3241         | Pool  | CT         |
| 341-A-3               | Starr      | S 35          |                 |          | Waverly Oil Works                       | 3      | J. B. McClain                  | 1921          | Sal        | ?                    | --        | ?           | 3007         | Pool  | CT         |
| 435                   | Washington | S 34          | 330 NL 800 EL   |          | Bell & Johnson                          | 5      | H. G. Stone                    | 1954          | Sal        | Frac                 | --        | 150         | 2791         | Pool  | CT         |
| 454                   | Washington | S 12          | 1168 SL 2245 WL | SW       | T. W. Carroll                           | 1      | Frank Mosure                   | 1955          | Sal        | Frac                 | 50        | 40          | 2973         | Pool  | CT         |
| 736                   | Marion     | S 13          | 660 SL 660 WL   | SE       | Waverly Oil Works                       | 1      | D. W. Ruff                     | 1960          | Sal        | Frac                 | 200       | 50          | 2927         | Pool  | CT         |
|                       |            |               |                 |          |   |        |                                |               |            |                      |           |             |              |       | Abd. 11-3  |

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township   | Land Division | Location        | Operator | Well No.               | Lease | Date Comp.         | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |   |
|-----------------------|------------|---------------|-----------------|----------|------------------------|-------|--------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|---|
|                       |            |               |                 |          |                        |       |                    |              |            | MCFGPD        | BOPD |             |        |       |         |   |
| HOCKING COUNTY (con.) |            |               |                 |          |                        |       |                    |              |            |               |      |             |        |       |         |   |
| 739                   | Washington | S 22          | 1025 SL 2099 WL | SW       | Well Supervision       | 1     | Harold Miller      | 1960         | Sal        | Frac          | 75   | 60          | 2892   | Pool  | CT      | Abd. 12-22  |
| 743                   | Marion     | S 13          | 527 NL 1960 EL  | NE       | Franklin Oil Co.       | 1     | Howdyshell         | 1960         | Sal        | Frac          | 50   | 40          | 2809   | Pool  | CT      | Abd. 12-9   |
| 773                   | Washington | S 28          | 330 NL 310 EL   | NE       | A. M. Carlson          | 2     | A. N. Wilcox       | 1961         | Sal        | Frac          | --   | 15          | 2771   | Pool  | CT      | Abd. 2-27   |
| 806                   | Washington | S 27          | 330 NL 1679 WL  | NW       | A. M. Carlson          | 3     | E. & L. Huggins    | 1961         | Sal        | Frac          | 200  | 135         | 2939   | Pool  | CT      | Abd. 12-8   |
| 861                   | Washington | S 21          | 350 SL 1650 WL  | SW       | Fred Hedrick           | 2     | J. L. Foraker      | 1961         | Sal        | Frac          | 100  | 22          | 2733   | Pool  | CT      | Abd. 10-20  |
| 906                   | Washington | S 20          | 1369 SL 338 EL  | SW       | J. R. Swingle          | 1     | Nimon Heirs        | 1961         | Sal        | Frac          | 40   | 10          | 2815   | Pool  | CT      | Abd. 11-18  |
| 922                   | Green      | S 4           | 45 SL 906 EL    | SE       | R. C. Chute            | A-2   | Samuel Chute       | 1961         | Mbe        | Shot          | 10   | 1           | 863    | Pool  | CT      | Abd. 1-3  |
| 953                   | Washington | S 21          | 330 NL 330 WL   | SE       | Emme Oil Co.           | 1     | E. B. Foraker      | 1962         | Sal        | Frac          | 150  | 75          | 2711   | Pool  | CT      | Abd. 10-9   |
| 978                   | Washington | S 20          | 1002 SL 972 WL  | NE       | W. E. Shrider          | 1     | C. W. Chidester    | 1962         | Sal        | Frac          | 175  | 30          | 2737   | Pool  | CT      | Abd. 10-27  |
| 980                   | Falls      | S 14          | 300 SL 750 EL   | SE       | Lee Oil Co.            | 1     | Delbert Davis      | 1962         | Sal        | Frac          | 68   | 25          | 2663   | Pool  | CT      | Abd. 12-18  |
| 983                   | Ward       | S 27          | 1600 SL 1650 EL | SE       | Emme Oil Co.           | 1     | Lloyd Nixon        | 1962         | Sal        | Frac          | 848  | 25          | 3381   | Pool  | CT      | Abd. 7-27   |
| 998                   | Ward       | S 27          | 1600 SL 450 EL  | SE       | Emme Oil Co.           | 2     | Lloyd Nixon        | 1962         | Sal        | Frac          | 500  | 50          | 3462   | Pool  | CT      | Abd. 8-1  |
| 1008-1                | Benton     | S 22          | 1350 NL 1050 EL | NE       | Savage & Williams      | 1     | Storing-Reid       | 1962         | Sal        | Frac          | 204  | 50          | 2442   | Pool  | CT      | Abd. 2-13   |
| 1008-2                | Benton     | S 22          | 2350 NL 1040 EL | NE       | Savage & Williams      | 2     | Storing-Reid       | 1962         | Sal        | Frac          | 2420 | --          | 2455   | Pool  | CT      | Abd. 2-20   |
|                       |            | SUMMARY       | ABANDONED-24    |          |                        |       |                    |              |            |               |      |             |        |       |         |   |
| HOLMES COUNTY         |            |               |                 |          |                        |       |                    |              |            |               |      |             |        |       |         |   |
| 1274                  | Knox       | S 24          | 560 NL 1700 WL  | SW       | Willey & Co., Inc.     | 2     | C. E. Murphy       |              |            |               |      |             |        | Pool  | CT      | OWWO canceled                                     |
| 1277                  | Monroe     | L 20 (1Q)     | 720 SL 115 EL   |          | Louis G. Galley        | 1     | F. Wolgamot        | 1963         | Mbe        | Shot          | 50   | --          | 758    | Pool  | CT      |   |
| 1282                  | Richland   | S 19          | 1650 NL 330 EL  | NE       | William Hill Dlg.      | 1     | D. & E. Barnes     |              |            |               |      |             |        | Pool  | CT      | Replaced by P-1302                                |
| 1285                  | Killbuck   | S 16          | 1020 NL 1095 EL | NE       | Tri-State Prod. Co.    | 2     | Kenneth Ridenbaugh | ?            | Sal        | Frac          | --   | 20          | 3317   | Pool  | CT      | Gas 94 MCF  |
| 1287                  | Knox       | S 23          | 660 SL 660 WL   | SW       | Willey & Co., Inc.     | 1     | W. W. Ruble        | 2-28         | Sal        | Frac          | 579  | 10          | 3311   | Pool  | CT      |   |
| 1288                  | Hardy      | S 24          | 990 NL 990 EL   | NE       | Amerada Pet. Co.       | 1     | Kathleen Force     | 3-1          | €cr        | --            | --   | --          | 6190   | FWC   | RT      |   |
| 1289                  | Richland   | S 14-E        | 705 SL 560 WL   | NW       | Ohio Fuel Gas Co.      | 1     | P. Bucy            |              |            |               |      |             |        | Pool  | CT      | OW Abd.   |
| 1290                  | Salt Creek | S 2           | 571 NL 1900 WL  | SW       | W. Sheock; Wayne Door  | 1-C   | Dan Yoder          | 2-26         | Sal        | Frac          | 3000 | --          | 3984   | Pool  | CT      |   |
| 1291                  | Hardy      | L 14 (3Q)     | 435 SL 1760 WL  |          | Ed N. Obermiller       | C-3   | E. N. Obermiller   |              |            |               |      |             |        | Pool  | CT      | Canceled  |
| 1292                  | Hardy      | L 14 (3Q)     | 1139 SL 1264 WL |          | Ed N. Obermiller       | C-4   | E. N. Obermiller   |              |            |               |      |             |        | Pool  | CT      | Replaced by P-1298                                |
| 1293                  | Salt Creek | S 2           | 1030 SL 879 EL  | SW       | J. J. Wells Co.        | 1     | J. Beachy          | 5-16         | Sal        | --            | --   | --          | 4012   | Pool  | CT      |   |
| 1294                  | Monroe     | L 2 (2Q)      | 200 SL 300 WL   |          | John C. Mason          | 1     | Lawrence Lepla     | 6-27         | Sal        | Frac          | 214  | 20          | 3366   | Pool  | CT      |   |
| 1295                  | Monroe     | L 20 (1Q)     | 930 SL 795 EL   |          | Gayell Oil Corp.       | 2     | R. & H. Clinage    |              |            |               |      |             |        | Pool  | CT      | Abd. loc.   |
| 1296                  | Killbuck   | S 9           | 805 NL 602 EL   | NW       | Forrest Smith          | 1     | Ben Glick          | 7-16         | Sal        | Frac          | --   | 10          | 3180   | Pool  | CT      | Gas 10 MCF  |
| 1297                  | Clark      | S 18          | 660 SL 660 EL   | SE       | Kin-Ark Oil            | 1     | L. S. Erb          | 7-28         | €cr        | Frac          | 150  | --          | 6830   | FWC   | CT      | Lost swab after acid-€cr.<br>PB to Sal. Discovery |
| 1298                  | Hardy      | L 14 (3Q)     | 1139 SL 1264 WL |          | Ed N. Obermiller       | C-4   | E. N. Obermiller   | 7-14         | Sal        | Frac          | --   | 15          | 3529   | Pool  | CT      |   |
| 1299                  | Washington | S 6           | 330 SL 330 WL   | SW       | Harris Engineering Co. | 1     | H. & M. Baldner    | 7-26         | €cr        | --            | --   | --          | 5179   | FWC   | RT      |   |
| 1300                  | Killbuck   | S 20          | 1275 SL 660 EL  | NE       | Oxford Oil Co.         | 1     | Charles Abt        | 9-25         | Sal        | Frac          | 500  | 8           | 3180   | Pool  | CT      |   |
| 1301                  | Killbuck   | S 16          | 575 NL 525 WL   | NW       | Oxford Oil Co.         | 4     | Bartlett-Anderson  | 12-11        | Sal        | Frac          | 200  | 50          | 3218   | Pool  | CT      |   |
| 1302                  | Richland   | S 19          | 1650 NL 330 EL  | NE       | William Hill Dlg.      | 1     | D. & E. Barnes     | 8-19         | Sal        | Frac          | --   | 30          | 3342   | Pool  | CT      | Replaces P-1282                                   |
| 1303                  | Richland   | S 23          | 353 NL 970 WL   | SE       | Oil Well Dlg. Co.      | 1     | McMurray-Crider    | 9-8          | €cr        | Frac?         | --   | --          | 5618   | FWC   | RT      | PB Sal. Oil 3 BPD                                 |
| 1304                  | Killbuck   | S 17          | 2310 SL 330 EL  | SE       | H. C. Thomas           | 4-C   | H. C. Thomas       | 11-12        | Sal        | Frac          | --   | 10          | 3490   | Pool  | CT      |   |
| 1305                  | Salt Creek | L 27          | 755 NL 1197 WL  |          | Trans-World Oil Co.    | 1     | E. D. Yoder        | 11-26        | Sal        | Frac          | 2420 | --          | 4010   | Pool  | CT      |   |
| 1306                  | Salt Creek | L 3-E         | 330 NL 330 EL   |          | Chief Dlg., Inc.       | 1     | W. A. Yoder        | 10-6         | Sal        | Frac          | 1430 | --          | 3986   | Pool  | RT      |   |
| 1307                  | Salt Creek | L 19-E        | 230 SL 1000 WL  |          | W. L. Lichlyter        | 1     | Mast-Hockstetter   | 10-25        | Sal        | Frac          | 265  | --          | 4062   | Pool  | RT      |   |

## LIST OF OPERATIONS DURING 1964

| Permit Number           | Township   | Land Division | Location        | Operator | Well No.             | Lease | Date Comp.             | Deepest Unit | Type Comp. | Initial Prod. |       | Total Depth | Class. | Tools | Remarks |            |
|-------------------------|------------|---------------|-----------------|----------|----------------------|-------|------------------------|--------------|------------|---------------|-------|-------------|--------|-------|---------|------------|
|                         |            |               |                 |          |                      |       |                        |              |            | MCFGPD        | BOPD  |             |        |       |         |            |
| HOLMES COUNTY (con.)    |            |               |                 |          |                      |       |                        |              |            |               |       |             |        |       |         |            |
| 1308                    | Killbuck   | S 9           | 732 SL 330 EL   | NW       | Frederick Heldt      | 1-C   | Arthur Webb            | 12-16        | Sal        | Frac          | --    | 35          | 3184   | Pool  | CT      | Active     |
| 1309                    | Richland   | S 24-E        | 500 SL 188 EL   | SE       | Dalton & Hanna Co.   | 1     | W. & J. Miller         | 12-6         | Sal        | Frac          | 500   | 8           | 3637   | Pool  | CT      |            |
| 1310                    | Richland   | S 19          | 660 NL 660 EL   | SE       | William Hall Dlg.    | 1     | J. Barnes              |              |            |               |       |             |        | Pool  | CT      |            |
| SUMMARY                 |            |               | GAS-6           | OIL-6    | COMBINATION-5        |       | DRY-4                  | TOTAL-21     |            |               | 9,308 | 216         | 81,443 | FEET  |         |            |
| OLD WELLS ABANDONED     |            |               |                 |          |                      |       |                        |              |            |               |       |             |        |       |         |            |
| 352-A-1                 | Richland   | S 14-E        | 350 SL 350 WL   | SW       | Ohio Fuel Gas Co.    | 1     | C. Pallison (J. Roby)  | 1926         | Sal        | Shot          | 479   | --          | 3126   | Pool  | CT      | Abd. 6-2   |
| 422-A                   | Richland   | S 11          | 1950 NL 2080 WL | NW       | Ohio Fuel Gas Co.    | 1     | Alexander (Hawkins)    | 1930         | Sal        | ?             | ?     | --          | 3386   | Pool  | CT      | Abd. 5-22  |
| 506                     | Knox       | S 14          | 880 SL 641 WL   |          | Wiser Oil Co.        | 1     | G. Dininger (Harris)   | 1952         | Sal        | Shot          | 133   | --          | 3247   | Pool  | CT      | Abd. 1-10  |
| 685                     | Ripley     | S 10          | 750 NL 1001 EL  | NW       | Ohio Fuel Gas Co.    | 2     | E. W. Hostettler       | 1955         | Sal        | ?             | ?     | --          | 3438   | Pool  | CT      | Abd. 12-24 |
| 729                     | Killbuck   | S 2           | 350 NL 1000 WL  | NE       | Pan-Ohio O. & G. Co. | 1     | J. & G. Purdy          | 1955         | Sal        | Frac          | 282   | 60          | 3295   | Pool  | CT      | Abd. 9-14  |
| 828                     | Killbuck   | S 3-E         | 330 NL 380 WL   | SW       | Preston Oil Co.      | 1     | J. E. Steele           | 1956         | Sal        | Frac          | 37    | ?           | 3555   | Pool  | CT      | Abd. 2-4   |
| 934                     | Killbuck   | S 18-W        | 1386 SL 660 WL  | NW       | Beasley-Sharp, Inc.  | 1     | W. & M. Akins          | 1958         | Sal        | Frac          | 351   | 25          | 3125   | Pool  | CT      | Abd. 10-26 |
| 946                     | Richland   | S 17-W        | 430 SL 920 EL   | NW       | Mid-East Oil Co.     | 2     | J. White Heirs         | 1958         | Sal        | Frac          | --    | 75          | 3257   | Pool  | CT      | Abd. 9-28  |
| 947                     | Killbuck   | S 5           | 1225 NL 450 WL  | SW       | Dunn-Mar O. & G.     | 2     | Clint Waltman          | 1958         | Sal        | Frac          | --    | 100         | 3304   | Pool  | CT      | Abd. 10-16 |
| 1031                    | Knox       | S 27          | 248 NL 660 EL   | NW       | R. G. Smith          | 1     | S. Crider              | 1958         | Sal        | Frac          | 2300  | --          | 3125   | Pool  | CT      | Abd. 1-7   |
| 1034                    | Hardy      | L 4 (2Q)      | 380 SL 330 WL   |          | G. K. Campbell       | 1     | J. D. Fair             | 1959         | Sal        | Frac          | --    | 15          | 3433   | Pool  | CT      | Abd. 5-20  |
| 1086                    | Killbuck   | S 18-W        | 715 SL 330 EL   | NW       | B. G. Davis O. & G.  | 2     | A. C. Fites, Jr.       | 1959         | Sal        | Frac          | --    | 250         | 3135   | Pool  | CT      | Abd. 10-21 |
| 1103                    | Knox       | S 24-N        | 1746 NL 616 EL  | SE       | Ohio Fuel Gas Co.    | 1     | C. J. Ling             | 1959         | Sal        | Frac          | 107   | --          | 3333   | Pool  | CT      | Abd. 10-27 |
| 1289                    | Richland   | S 14-E        | 705 SL 560 WL   | NW       | Ohio Fuel Gas Co.    | 1     | P. Bucy                | 1930         | Sal        | ?             | ?     | --          | 3386   | Pool  | CT      | Abd. 3-13  |
| SUMMARY                 |            |               | ABANDONED-14    |          |                      |       |                        |              |            |               |       |             |        |       |         |            |
| STORAGE                 |            |               |                 |          |                      |       |                        |              |            |               |       |             |        |       |         |            |
|                         | Ripley     |               |                 |          | Ohio Fuel Gas Co.    |       | "Clinton" storage area |              |            |               |       |             |        |       |         |            |
| SUMMARY                 |            |               | STORAGE-1       |          | TOTAL FEET-3502      |       |                        |              |            |               |       |             |        |       |         |            |
| STORAGE WELLS ABANDONED |            |               |                 |          |                      |       |                        |              |            |               |       |             |        |       |         |            |
|                         | Washington |               |                 |          | Ohio Fuel Gas Co.    |       | "Clinton" storage area |              |            |               |       |             |        |       |         |            |
| SUMMARY                 |            |               | ABANDONED-2     |          |                      |       |                        |              |            |               |       |             |        |       |         |            |
| HURON COUNTY            |            |               |                 |          |                      |       |                        |              |            |               |       |             |        |       |         |            |
| 28                      | New Haven  | L 107 (1Q)    | 330 NL 330 WL   |          | Reliance Oil Corp.   | 1     | A. & M. Newmyer        | 1-21         | €cr        | --            | --    | --          | 3680   | FWC   | CT      | Canceled   |
| 29                      | New Haven  | L 96 (4Q)     | 700 NL 500 EL   |          | George M. Gernhardt  | 1     | Raymond Caudill        | 2-20         | €cr        | --            | --    | --          | 3363   | FWC   | CT      |            |
| 31                      | Fairfield  | L 30          | 60 SL 330 WL    |          | Jerry Moore, Inc.    | 1     | Paul Sengstock         |              |            |               |       |             |        | Pool  | RT      |            |
| 32                      | Fitchville | L 6 (1Q)      | 330 NL 330 EL   |          | Hale Roberts         | 1     | J. & V. Wargo          | 8-9          | €cr        | --            | --    | --          | 4017   | FWC   | FWC     |            |
| 33                      | Greenfield | L 9           | 1650 NL 4625 EL |          | Bradley Bros.        | 1     | L. & E. Smith          | 9-14         | €cr        | --            | --    | --          | 3286   | FWC   | CT      |            |

## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township     | Land Division | Location                | Operator                   | Well No. | Lease             | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks             |
|---------------------|--------------|---------------|-------------------------|----------------------------|----------|-------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|---------------------|
|                     |              |               |                         |                            |          |                   |            |              |            | MCFGPD        | BOPD |             |        |       |                     |
| HURON COUNTY (con.) |              |               |                         |                            |          |                   |            |              |            |               |      |             |        |       |                     |
| 34                  | Ridgefield   | S 1           | 2100 SL 1825 EL         | D-J Oil, Inc.              | 1        | J. F. Fisher      | 11-10      | €cr          | --         | --            | --   | 3245        | FWC    | CT    | Active              |
| 35                  | Norwich      | L 14          | 9525 NL 6625 WL SW Twp. | Hugh Horn                  | 1        | R. & V. Hillis    | 10-25      | €cr          | --         | --            | --   | 3145        | FWC    | CT    |                     |
| 36                  | Ripley       | L 33 (1Q)     | 555 NL 1024 WL          | Hadson Ohio Oil Co.        | 1        | E. K. Willet      | 10-4       | €cr          | --         | --            | --   | 3939        | FWC    | RT    |                     |
| 37                  | Richmond     | L 11 (4Q)     | 124 SL 332 EL           | W. L. Fritz                | 1        | W. & L. Fritz     |            |              |            |               |      |             | Pool   | CT    |                     |
| 38                  | New London   | L 14 (4Q)     | 600 NL 900 WL           | Hadson Ohio Oil Co.        | 1        | P. C. Johnson     | 11-5       | €cr          | --         | --            | --   | 4300        | FWC    | RT    |                     |
| 39                  | New Haven    | L 105         | 545 SL 125 EL           | Stocker & Sittler          | 1        | Jopland-Chapman   |            |              |            |               |      |             | FWC    | CT    | Active              |
| 40                  | New London   | L 20 (3Q)     | 330 SL 330 EL           | Colorado O. & G. Co.       | 1        | L. Rumbaugh       |            |              |            |               |      |             | FWC    | RT    | Active              |
|                     |              | SUMMARY       | GAS-0 OIL-0             | COMBINATION-0              |          | DRY-8 TOTAL-8     |            |              |            | 0             | 0    | 28,975      | FEET   |       |                     |
| JACKSON COUNTY      |              |               |                         |                            |          |                   |            |              |            |               |      |             |        |       |                     |
| 75                  | Madison      | S 30          | 235 SL 276 WL SE        | E. E. Davis                | 1        | E. E. Davis       | 10-23      | Sal          | --         | --            | --   | 2941        | Out    | CT    | Domestic gas 20 MCF |
| 76                  | Franklin     | S 23          | 790 SL 730 EL SW        | Ralph C. Halbert           | 1        | G. & I. Wood      | 7-8        | €ms          | --         | --            | --   | 6320        | FWC    | RT    |                     |
| 77                  | Washington   | S 13          | 1700 NL 2250 WL NW      | Kelch Bros. O. & G.        | 1        | Arthur Maloy      | 8-10       | Mhd          | Shot       | --            | --   | 895         | Pool   | CT    |                     |
| 78                  | Hamilton     | S 28          | 235 NL 1000 EL SE       | Ralph C. Halbert           | 1        | Slavens et al     | 8-10       | PC           | --         | --            | --   | 5681        | FWC    | RT    |                     |
| 79                  | Franklin     | S 31          | 875 NL 941 EL SW        | Ralph C. Halbert           | 1        | W. G. Brown       | 9-16       | PC           | --         | --            | --   | 5991        | FWC    | RT    |                     |
|                     |              | SUMMARY       | GAS-0 OIL-0             | COMBINATION-0              |          | DRY-5 TOTAL-5     |            |              |            | 0             | 0    | 21,828      | FEET   |       |                     |
| OLD WELLS ABANDONED |              |               |                         |                            |          |                   |            |              |            |               |      |             |        |       |                     |
| 41-A-3              | Coal         | S 2           |                         | Ohio Fuel Gas Co.          | 3        | Ohio Fuel Gas Co. | 1928       | Sal          | ?          | ?             | --   | 2643        | Pool   | CT    | Abd. 3-18           |
| 41-A-4              | Coal         | S 2           |                         | Ohio Fuel Gas Co.          | 4        | Ohio Fuel Gas Co. | 1926       | Sal          | ?          | ?             | --   | 2650        | Pool   | CT    | Abd. 4-16           |
| 78-A                | Washington   | S 23          | 1900 SL 1850 WL SW      | Ohio Fuel Gas Co.          | 2        | L. J. McMillen    | 1929       | Sal          | ?          | ?             | --   | 2716        | Pool   | CT    | Abd. 6-12           |
| 197-A               | Franklin     | S 2           | 520 NL 1000 WL NW       | Ohio Fuel Gas Co.          | 2        | P. A. Ratcliff    | 1929       | Sal          | ?          | 840           | --   | 2648        | Pool   | CT    | Abd. 4-24           |
|                     |              | SUMMARY       | ABANDONED-4             |                            |          |                   |            |              |            |               |      |             |        |       |                     |
| JEFFERSON COUNTY    |              |               |                         |                            |          |                   |            |              |            |               |      |             |        |       |                     |
| 347                 | Island Creek | S 34-W        | 2000 NL 840 WL NW       | Francis Cunningham         | 2        | F. Cunningham     |            |              |            |               |      |             | Pool   | CT    | Canceled            |
| 348                 | Ross         | S 27          | 558 SL 486 WL NW        | Nick Brozovich, Jr.        | 1        | Ted Starr         | 8-3        | Mbe          | --         | --            | --   | 1481        | Pool   | CT    | Active              |
| 349                 | Ross         | S 13          | 236 NL 1945 WL NW       | Nick Brozovich, Jr.        | 1        | L. Simone         |            |              |            |               |      |             | Pool   | CT    |                     |
| 350                 | Mt. Pleasant | S 5           | 1980 SL 2700 WL         | Floyd Gearhardt            | 1        | E. Yopa           |            |              |            |               |      |             | FWC    | CT    |                     |
|                     |              | SUMMARY       | GAS-0 OIL-0             | COMBINATION-0              |          | DRY-1 TOTAL-1     |            |              |            | 0             | 0    | 1,481       | FEET   |       |                     |
| OLD WELL ABANDONED  |              |               |                         |                            |          |                   |            |              |            |               |      |             |        |       |                     |
| 284-A-2             | Knox         | S 32          |                         | Manufacturers Light & Heat | 2        | J. McClelland     | 1914       | Mbe          | ?          | 90            | --   | 2164        | Pool   | CT    | Abd. 6-26           |
|                     |              | SUMMARY       | ABANDONED-1             |                            |          |                   |            |              |            |               |      |             |        |       |                     |
|                     |              |               |                         |                            |          |                   |            |              |            |               |      |             |        |       |                     |

## LIST OF OPERATIONS DURING 1964

| Permit Number | Township | Land Division | Location                                    | Operator                  | Well No. | Lease               | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|---------------|----------|---------------|---|---------------------------|----------|---------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|               |          |               |   |                           |          |                     |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| KNOX COUNTY   |          |               |   |                           |          |                     |            |              |            |               |      |             |        |       |                    |
| 1480          | Harrison | L 3 (2Q)      | 508 NL 203 EL                               | Mack O. & G. Co.          | 2        | H. & J. White       | 7-28       | Mbe          | Shot       | --            | 1    | 570         | Pool   | CT    |                    |
| 1491          | Clay     | S 19          | 855 NL 1860 WL                              | NW Wilber Baker           | 2        | A. Mack             | 2-11       | Mbe          | Shot       | --            | 2    | 755         | Pool   | CT    |                    |
| 1492          | Butler   | S 19          | 300 SL 300 EL                               | SE Rodney Ridgway         | 1        | P. Frazee           | 1963       | Sal          | Frac       | --            | 35   | 3151        | Pool   | CT    |                    |
| 1495          | Milford  | S 9           | 850 NL 1320 EL                              | NE Comanche Oil Co.       | 1        | F. W. Frye          | 2-27       | €cr          | Acid       | --            | --   | 4249        | FWC    | CT    |                    |
| 1497          | Jackson  | S 23          | 1070 SL 1080 WL                             | SW John Webb              | 1        | Iva Boggs           | 1963       | Sal          | Frac       | --            | 40   | 3001        | Pool   | CT    |                    |
| 1498          | Union    | S 13          | 850 NL 1690 EL                              | SE Wiser Oil Co.          | 2        | Glenn Ferenbaugh    | 1-10       | Sal          | Frac       | 2000          | --   | 2933        | Pool   | CT    |                    |
| 1500          | Clay     | L 23          | 360 SL 540 WL                               | Richard D. Moore          | 4        | G. K. Schooler      | 4-11       | Mbe          | --         | --            | --   | 806         | Pool   | CT    |                    |
| 1502          | Jackson  | S 2           | 400 NL 400 WL                               | NE John Webb              | 1-A      | G. H. Rine          | 1963       | Sal          | Frac       | 103           | 35   | 3100        | Pool   | CT    |                    |
| 1503          | Howard   | L 17 (4Q)     | 600 NL 350 WL                               | Carver-Dodge Oil Co.      | 1        | Ed Stull            | 1-2        | €cr          | --         | --            | --   | 5052        | FWC    | RT    |                    |
| 1504          | Clay     | S 21          | 600 SL 1980 EL                              | NW Waverly Oil Works      | 1        | Roy Kidwell         | 3-9        | Sal          | --         | --            | --   | 3020        | Pool   | CT    |                    |
| 1505          | Howard   | L 7 (2Q)      | 1600 SL 400 WL                              | Ohio Fuel Gas Co.         | 2        | T. J. Porter        |            |              |            |               |      |             | Pool   | CT    | OW Abd.            |
| 1506          | Jackson  | S 25          | 1560 SL 850 EL                              | S. W. Bardill             | 1        | Lawrence Bolen      | 3-10       | Sal          | Frac       | --            | 32   | 2864        | Pool   | CT    | Gas 62 MCF         |
| 1507          | Morris   | L 8           | 1650 SL 2130 EL                             | Kuzmich & Mays            | 1        | James Fearn         | 2-23       | €cr          | --         | --            | --   | 4490        | FWC    | RT    |                    |
| 1508          | Butler   | S 16          | 1400 NL 500 WL                              | NW Preston Oil Co.        | 2        | C. E. McLarnan      |            |              |            |               |      |             | Pool   | CT    | Replaced by P-1525 |
| 1509          | Brown    | S 11          | 500 NL 2200 EL                              | SE Ohio Fuel Gas Co.      | 1        | D. E. Lifer         |            |              |            |               |      |             | Pool   | CT    | OW Abd.            |
| 1510          | Jackson  | S 2           | 800 NL 440 EL                               | NW Preston Oil Co.        | 4        | Howard Rine         | 3-6        | Sal          | Frac       | --            | 70   | 3097        | Pool   | CT    |                    |
| 1511          | Jackson  | S 13          | 330 SL 330 EL                               | NE Hoosier Oil Co.        | 1        | Keith Hanna         | 4-15       | Sal          | --         | --            | --   | 3166        | Pool   | CT    |                    |
| 1512          | Butler   | S 22          | 400 SL 2080 EL                              | SE Preston Oil Co.        | 1        | G. H. Rine          |            |              |            |               |      |             | Pool   | CT    | Replaced by P-1522 |
| 1513          | Brown    | L 8 (3Q)      | 725 SL 660 WL                               | Ohio Fuel Gas Co.         | 3        | J. Kline (J. Drake) |            |              |            |               |      |             | Pool   | CT    | OW Abd.            |
| 1514          | Butler   | S 15          | 190 SL 980 WL                               | SW Well Investments, Inc. | 2        | W. & T. Mortine     |            |              |            |               |      |             | Pool   | CT    | Replaced by P-1553 |
| 1515          | Wayne    | L 10 (3Q)     | 330 NL 1960 EL                              | McClure Oil Co.           | 1        | Harvard Sherry      |            |              |            |               |      |             | FWC    | RT    | Replaced by P-1528 |
| 1516          | Milford  | S 10          | 70 SL 215 WL                                | NW Pauley & Fowler        | 2        | Adrian Gates        |            |              |            |               |      |             | FWC    | RT    | Abd. loc.          |
| 1517          | Milford  | S 10          | 433 SL 115 WL                               | NW Pauley & Fowler        | 1        | Adrian Gates        | 3-24       | €cr          | --         | --            | --   | 4261        | FWC    | RT    |                    |
| 1518          | College  | L 28          | 180 SL 930 WL                               | Carver-Dodge Oil Co.      | 1        | S. C. Hall          |            |              |            |               |      |             | FWC    | RT    | Replaced by P-1521 |
| 1519          | Miller   | S 5           | 330 SL 990 EL                               | SE Great Lakes Dlg. Co.   | 1        | Victor Greene       |            |              |            |               |      |             | FWC    | RT    | Canceled           |
| 1520          | Hilliar  | L 10          | 10 N of Cherry Alley<br>56 W of Clayton St. | C. E. Sammetinger         | 1        | C. E. Sammetinger   |            |              |            |               |      |             | FWC    | RT    | Canceled           |
| 1521          | College  | L 28          | 180 SL 930 WL                               | Carver-Dodge Dlg. Co.     | 1        | S. C. Hall          | 4-2        | €cr          | Frac       | 293           | --   | 4757        | DPWC   | RT    | PB to Sal          |
| 1522          | Butler   | S 22          | 400 SL 2080 EL                              | SE Preston Oil Co.        | 1        | G. H. Rine          | 5-14       | Sal          | Frac       | --            | 75   | 3025        | Pool   | CT    |                    |
| 1523          | Harrison | S 20          | 2050 SL 500 EL                              | SE Preston Oil Co.        | 2        | Dean Billman        | 5-14       | Sal          | Frac       | --            | --   | 3010        | Pool   | CT    |                    |
| 1524          | Hilliar  | L 4 (1Q)      | 356 NL 330 WL                               | Comanche Oil Co.          | 2        | Robert Griffith     | 5-13       | €cr          | --         | --            | --   | 4055        | FWC    | CT    |                    |
| 1525          | Butler   | S 16          | 1423 NL 804 EL                              | NW Preston Oil Co.        | 2        | C. E. McLarnan      | 7-1        | Sal          | Frac       | --            | 8    | 2919        | Pool   | CT    | Gas 40 MCF         |
| 1526          | Wayne    | L 6 (3Q)      | 2800 SL 500 WL                              | Simcox Oil Co.            | 1        | Lewis Bricker       | 5-28       | €cr          | --         | --            | --   | 4080        | FWC    | RT    |                    |
| 1527          | Butler   | S 25          |   | Ohio Fuel Gas Co.         | 2        | Raymond Lepley      |            |              |            |               |      |             |        |       | Storage            |
| 1528          | Wayne    | L 10 (3Q)     | 330 NL 1960 EL                              | McClure Oil Co.           | 1        | Harvard Sherry      | 5-19       | €cr          | --         | --            | --   | 4110        | FWC    | RT    | Replaces P-1515    |
| 1529          | Union    | S 19          | 996 NL 1783 EL                              | NE Ralph H. Hamblin       | 1        | Harry Landis        | 5-1        | Sal          | Frac       | --            | 40   | 2931        | Pool   | CT    | Gas 75 MCF         |
| 1530          | Milford  | S 13          | 10 SL 450 WL                                | NW Well Supervision, Inc. | 1        | Christian Krauss    |            |              |            |               |      |             | NWC    | RT    | Abd. loc.          |
| 1531          | Milford  | S 9           | 475 NL 105 WL                               | NE Rebel Dlg. Co.         | 1        | Floyd Hines         | 5-11       | €cr          | Shot       | --            | 5    | 4308        | DPWC   | RT    | PB to Sal          |
| 1532          | Union    | L 32 (1Q)     | 816 NL 685 EL                               | Wiser Oil Co.             | 2        | W. & E. Holt        | 5-29       | Sal          | Frac       | --            | 110  | 3083        | Pool   | CT    |                    |
| 1533          | Jackson  | S 12          | 995 SL 1303 EL                              | NW Carl E. Smith          | 2        | Roy Earlywine       | 5-26       | Sal          | Frac       | --            | 50   | 3126        | Pool   | CT    |                    |
| 1534          | Union    | S 12          | 420 NL 360 EL                               | SE Roy Stewart            | 3        | D. & S. Miller      | 6-5        | Sal          | Frac       | --            | 20   | 3079        | Pool   | CT    |                    |

## LIST OF OPERATIONS DURING 1964

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|--------------------|------------|---------------|-----------------|---------------------------|----------|----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|----------------------|
|                    |            |               |                 |                           |          |                      |            |              |            | MCFGPD        | BOPD |             |        |       |                      |
| KNOX COUNTY (con.) |            |               |                 |                           |          |                      |            |              |            |               |      |             |        |       |                      |
| 1535               | Clinton    | L 20 (3Q)     | 330 NL 537 EL   | Pyramid Oil Co.           | A-1      | Carlos Perrin        | 5-29       | €cr          | --         | --            | --   | 4350        | FWC    | RT    |                      |
| 1536               | Butler     | S 22          | 482 SL 1189 EL  | SE Mask Oil Co.           | 2        | Maurice Beckley      | 6-6        | Sal          | Frac       | --            | 50   | 3038        | Pool   | CT    |                      |
| 1537               | Liberty    | L 8 (1Q)      | 330 NL 330 WL   | Burgin Oil Co.            | 1        | Edgar Cocharan       |            |              |            |               |      |             | FWC    | CT    | Abd. loc.            |
| 1538               | Jackson    | S 2           | 430 NL 1000 WL  | SW Dynamic Mineral Devel. | 1        | Encil Rine           | 8-13       | Sal          | Frac       | 168           | 40   | 3108        | Pool   | CT    |                      |
| 1539               | Union      | S 18          |                 | Ohio Cumberland Gas       | 161      | Sherman-Elliott      |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1540               | Milford    | S 9           | 190 NL 648 WL   | NE Comanche Oil Co.       | 1-C      | Floyd Hines          | 7-20       | €cr          | --         | --            | --   | 4279        | FWC    | CT    |                      |
| 1541               | Clinton    | L 14 (2Q)     | 990 NL 1650 WL  | Bushing-Finney & Assoc.   | B-5      | Carlos Perrin        | 8-27       | €cr          | Frac       | 1090          | --   | 4250        | DPWC   | RT    | PB to Sal            |
| 1542               | Jackson    | S 21          | 25 NL 1053 EL   | NE Mossholder Dlg. Co.    | 1        | Ed Wilt              | 6-29       | Sal          | Frac       | --            | 50   | 2970        | Pool   | CT    | Gas 63 MCF           |
| 1543               | Morgan     | L 7 (3Q)      | 330 NL 505 WL   | Petrol Servicing, Inc.    | 1        | A. D. Giandomenico   | 7-27       | €cr          | --         | --            | --   | 4429        | FWC    | CT    |                      |
| 1544               | Monroe     | L 16 (1Q)     | 2060 NL 800 WL  | Salbri, Inc.              | 3        | Ethel Irvine         |            |              |            |               |      |             | Pool   | CT    | Brine well           |
| 1545               | Howard     | L 17 (4Q)     | 900 SL 330 WL   | J. L. Trittipio           | 1        | Walter Dennis        | 7-17       | €cr          | --         | --            | --   | 4906        | FWC    | RT    |                      |
| 1546               | Wayne      | L 29 (2Q)     | 250 NL 1076 WL  | Publishers Pet. Co.       | 1        | Guy Reed             | 6-24       | €cr          | Acid       | --            | --   | 4118        | FWC    | RT    |                      |
| 1547               | Union      | S 13          | 705 NL 600 EL   | SW Wiser Oil Co.          | 1-B      | R. & L. Arweller     | 7-23       | Sal          | Frac       | 1260          | 20   | 2874        | Pool   | CT    |                      |
| 1548               | Jackson    | S 5           | 599 SL 250 EL   | SE L. H. Service Pet. Co. | 1        | Lee Earlywine        | 8-5        | Sal          | --         | --            | --   | 2865        | Pool   | CT    |                      |
| 1549               | Brown      | S 24          | 400 NL 185 WL   | SE Ohio Fuel Gas Co.      | 1        | Colopy Heirs         |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1550               | Jackson    | S 2           | 331 NL 1075 EL  | NE Clinton Oil Co.        | 1        | W. S. Darling        | 8-6        | Sal          | Frac       | 173           | 100  | 3125        | Pool   | CT    |                      |
| 1551               | Union      | S 21          | 1010 NL 690 WL  | NW Roy Stewart            | 1        | L. Lybarger          | 8-21       | Sal          | Frac       | --            | 20   | 3228        | Pool   | CT    |                      |
| 1552               | Pike       | S 22          | 1080 NL 775 EL  | NE Midland Exploration    | 1        | C. Stringfellow      | 7-26       | €cr          | --         | --            | --   | 4800        | FWC    | RT    |                      |
| 1553               | Butler     | S 15          | 199 SL 330 EL   | SW Well Investments, Inc. | 2        | W. & T. Mortine      | 9-29       | Sal          | Frac       | --            | 50   | 2964        | Pool   | CT    | Gas 84 MCF           |
| 1554               | Pike       | S 9           | 330 SL 1688 EL  | SE Midland Exploration    | 1        | Elizabeth Earnest    | 8-11       | €cr          | Frac       | --            | --   | 4980        | FWC    | RT    |                      |
| 1555               | Wayne      | L 29 (2Q)     | 595 SL 39 EL    | Publishers Pet. Co.       | 2        | Guy Reed             | 8-14       | €cr          | --         | --            | --   | 4162        | FWC    | RT    |                      |
| 1556               | Jackson    | S 11          | 371 SL 260 EL   | SE Glenn D. Davidson      | 1        | Harold Totten        | 11-15      | Sal          | Frac       | --            | 24   | 3171        | Pool   | CT    |                      |
| 1557               | Middlebury | S 22          | 845 NL 2340 WL  | NW T & W Oil Co.          | 1        | Harry Wilson         | 10-22      | €cr          | Frac       | --            | 20   | 4059        | DPWC   | RT    | Gas 84 MCF Discovery |
| 1558               | Union      | S 13          | 587 NL 885 WL   | SW Wiser Oil Co.          | 1        | R. & M. Colopy       |            |              |            |               |      |             | Pool   | CT    | Active               |
| 1559               | Union      | S 13          | 662 SL 785 WL   | SW Wiser Oil Co.          | 2        | R. & M. Colopy       | 10-1       | Sal          | Frac       | 140           | 2    | 2845        | Pool   | CT    |                      |
| 1560               | Union      | L 19          | 253 SL 1104 EL  | C. E. Skiles              | 2        | Paul Mumper          | 9-25       | Sal          | Frac       | 500           | 15   | 2987        | Pool   | CT    |                      |
| 1561               | Jackson    | S 7           | 230 SL 506 WL   | SW S. W. B. Corp.         | 1        | Lewis Hardesty       | 9-27       | Sal          | Frac       | --            | 40   | 2967        | Pool   | CT    | Abd. 11-12           |
| 1562               | Jackson    | S 23          | 230 NL 630 WL   | NE S. W. B. Corp.         | 1        | J. C. Burch          | 9-28       | Sal          | Frac       | --            | 80   | 3128        | Pool   | CT    |                      |
| 1563               | Butler     | S 21          | 300 SL 1660 EL  | SE Preston Oil Co.        | 2        | A. J. Beatty         |            |              |            |               |      |             | Pool   | CT    | OWWO                 |
| 1564               | Jackson    | S 18          | 350 NL 2760 WL  | NW W. E. Shrider          | 1        | Glenn Willey         | 9-29       | Sal          | Frac       | --            | 50   | 3033        | Pool   | CT    |                      |
| 1565               | Middlebury | S 22          | 345 NL 1760 EL  | T & W Oil Co.             | 1        | H. Simmons           | 10-8       | Sal          | Frac       | 4560          | --   | 2116        | FWC    | RT    | Discovery            |
| 1566               | Union      | S 21          | 0 NL 660 WL     | NW Roy Stewart            | 1        | Briar Hill Stone Co. | 10-27      | Sal          | Frac       | --            | 40   | 3246        | Pool   | CT    |                      |
| 1567               | Middlebury | S 22          | 230 NL 1309 EL  | NE T & W Oil Co.          | 2        | H. Simmons           | 11-19      | €cr          | --         | --            | --   | 4064        | Pool   | RT    |                      |
| 1568               | Union      | S 19          | 2076 NL 1860 EL | NE Ralph H. Hamblin       | 1        | Wilkes-Leyser        | 12-?       | Sal          | Frac       | --            | 18   | 3089        | Pool   | CT    |                      |
| 1569               | Jackson    | S 17          | 1620 NL 892 WL  | NW Midwest O. & G. Corp.  | 3-C      | B. T. Porterfield    | 12-9       | Sal          | Frac       | 213           | 10   | 2939        | Pool   | CT    |                      |
| 1570               | Jackson    | S 10          | 230 SL 112 EL   | NW S. W. B. Corp.         | 1        | Ethel Bailey         | 11-14      | Sal          | Frac       | --            | 40   | 3190        | Pool   | CT    |                      |
| 1571               | Clinton    | L 13 (2Q)     | 660 NL 140 WL   | SE B. A. Floto & Assoc.   | 1        | J. & S. Baldwin      |            |              |            |               |      |             | Pool   | RT    | Active               |
| 1572               | Butler     | S 19          | 300 SL 660 WL   | Mask Oil Co.              | 1        | Goldie Wolfe         | 11-6       | Sal          | Frac       | --            | 70   | 3137        | Pool   | CT    |                      |
| 1573               | Miller     | L 2 (4Q)      | 330 NL 430 EL   | Perry Fulk, Sr.           | 1        | William Cochran      | 10-23      | €cr          | --         | --            | --   | 4348        | FWC    | RT    |                      |
| 1574               | Hilliar    | L 16 (2Q)     | 300 NL 1390 EL  | Southern Indep. O. & R.   | 1        | Carroll Hubbell      |            |              |            |               |      |             | FWC    | RT    | Replaced by P-1596   |
| 1575               | Hilliar    | L 14 (2Q)     | 230 NL 230 WL   | Southern Indep. O. & R.   | 1        | Elmer Bell           | 11-10      | €cr          | --         | --            | --   | 3900        | FWC    | RT    |                      |
| 1576               | Middlebury | L 8           | 251 NL 2200 EL  | T & W Oil Co.             | 1        | R. & G. Rucker       |            |              |            |               |      |             | FWC    | RT    | Active               |
| 1577               | Jackson    | S 12          | 911 NL 1410 EL  | NW W. E. Shrider          | 1        | W. & M. Beach        | 11-11      | Sal          | --         | --            | --   | 3146        | Pool   | CT    |                      |
| 1578               | Butler     | S 22          | 1400 SL 2031 EL | SE Preston Oil Co.        | 2        | G. H. Rine           | 11-11      | Sal          | Frac       | --            | 250  | 3049        | Pool   | CT    |                      |
| 1579               | Jackson    | S 11          | 1499 SL 854 EL  | NW S. W. B. Corp.         | 1-A      | L. McCammet          | 11-21      | Sal          | Frac       | 265           | 85   | 3198        | Pool   | CT    |                      |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township   | Land Division | Location        | Operator | Well No.                  | Lease | Date Comp.                  | Deepest Unit | Type Comp. | Initial Prod. |        | Total Depth | Class.  | Tools | Remarks |                              |
|-----------------------|------------|---------------|-----------------|----------|---------------------------|-------|-----------------------------|--------------|------------|---------------|--------|-------------|---------|-------|---------|------------------------------|
|                       |            |               |                 |          |                           |       |                             |              |            | MCFGPD        | BOPD   |             |         |       |         |                              |
| KNOX COUNTY (con.)    |            |               |                 |          |                           |       |                             |              |            |               |        |             |         |       |         |                              |
| 1580                  | Millford   | S 9           | 1023 SL 901 EL  | NE       | Comanche Oil Co.          | 1     | Frye-Bidinger-Borden        | 10-31        | €cr        | --            | --     | 4267        | FWC     | RT    |         |                              |
| 1581                  | Harrison   | S 18          | 330 SL 330 EL   | SW       | B & J Dlg. Co.            | 1     | Paul Mills                  | 11-23        | Sal        | --            | --     | 2871        | Pool    | CT    |         |                              |
| 1582                  | Pleasant   | L 18 (2Q)     | 1440 NL 280 EL  |          | Midland Exploration       | 1     | R. F. Hall                  | 11-24        | €cr        | --            | --     | 4725        | FWC     | RT    |         |                              |
| 1583                  | Monroe     | L 27 (4Q)     | 970 NL 1055 WL  |          | Midland Exploration       | 1     | J. G. Cunningham            | 11-30        | €cr        | --            | --     | 4800        | FWC     | RT    |         |                              |
| 1584                  | Miller     | L 10 (4Q)     | 270 SL 785 WL   |          | Perry Fulk, Sr.           | 1     | Ruth McLaughlin             | 11-12        | €cr        | Acid          | --     | 30          | 4320    | FWC   | RT      | Wtr. Discovery               |
| 1585                  | Union      | L 13          | 850 SL 1400 WL  | NW       | Wiser Oil Co.             | 1     | R. & M. Andrews             |              |            |               |        |             |         | Pool  | CT      | Active                       |
| 1586                  | Middlebury | S 19          | 300 SL 3210 EL  |          | Sohio Pet. Co.            | 1     | D. Tugend                   | 12-3         | €cr        | --            | --     | 4198        | Pool    | RT    |         |                              |
| 1587                  | Howard     | L 10 (1Q)     | 500 SL 1430 EL  |          | Well Investments, Inc.    | 1     | R. J. Hawk                  | 12-28        | Sal        | Frac          | --     | 135         | 2706    | Pool  | CT      |                              |
| 1588                  | Middlebury | S 19          | 300 SL 1588 EL  | SE       | Sohio Pet. Co.            | 1     | G. Randall                  | 12-23        | Sal        | Frac          | --     | 58          | 2150    | Pool  | RT      |                              |
| 1589                  | Pike       | S 17          | 990 NL 2318 EL  | NE       | Mt. Carmel Dlg. Co.       | 1     | Alva Robinson               | 12-5         | €cr        | --            | --     | --          | 4650    | FWC   | RT      |                              |
| 1590                  | Middlebury | S 21          | 1050 NL 350 WL  | SW       | T & W Oil Co.             | 1     | First Nat'l Bank, Mansfield |              |            |               |        |             |         | Pool  | RT      | Active                       |
| 1591                  | Butler     | S 22          | 330 NL 760 WL   | SE       | Preston Oil Co.           | 3     | G. H. Rine                  | 12-21        | Sal        | Frac          | --     | 175         | 3039    | Pool  | CT      |                              |
| 1592                  | Middlebury | L 8           | 324 NL 432 WL   |          | T & W Oil Co.             | 1-A   | R. E. Rucker                |              |            |               |        |             |         | Pool  | RT      | Active                       |
| 1593                  | Middlebury | S 22          | 660 NL 500 EL   | NE       | Sohio Pet. Co.            | 2     | G. Randall                  |              |            |               |        |             |         | Pool  | RT      | Active                       |
| 1594                  | Middlebury | S 22          | 747 SL 600 EL   | SW       | Sohio Pet. Co.            | 1     | Rudy Garver                 |              |            |               |        |             |         | Pool  | RT      | Active                       |
| 1595                  | Jackson    | S 13          | 320 SL 320 EL   | SW       | Dynamic Mineral Devel.    | 1     | C. E. Hammond               |              |            |               |        |             |         | Pool  | CT      | Active                       |
| 1596                  | Hilliar    | L 16 (2Q)     | 300 NL 1390 EL  |          | Cal-O-Tex Co.             | 1     | Carroll Hubbell             | 12-20        | €cr        | --            | --     | --          | 3825    | FWC   | RT      | Replaces P-1574              |
| 1597                  | Clay       | L 19 (1Q)     | 1010 SL 1136 WL |          | Ivan Lance                | 15    | Frank Clutter               |              |            |               |        |             |         | Pool  | CT      | Active                       |
| 1598                  | Jackson    | S 2           | 290 NL 1080 WL  | SE       | W. H. Tatge               | 1     | O. S. Farmer                |              |            |               |        |             |         | Pool  | CT      | Active                       |
| 1599                  | Wayne      | L 10 (1Q)     | 1400 SL 880 EL  |          | William M. Boase          | 1     | F. & V. Bollinger           |              |            |               |        |             |         | FWC   | RT      | Active                       |
| 1600                  | Wayne      | L 11 (1Q)     | 826 NL 893 WL   |          | Dynamic Mineral Devel.    | 1     | M. & W. Dill                |              |            |               |        |             |         | FWC   | RT      | Active                       |
| 1601                  | Jackson    | S 5           | 400 NL 1374 EL  | NE       | Chief Dlg., Inc.          | 1     | P. J. Rine                  |              |            |               |        |             |         | Pool  | CT      | Active                       |
| 1602                  | Middlebury | S 19          | 230 SL 765 EL   | SE       | M. W. Ahlmeyer            | 1     | E. & H. McDonald            | 12-28        | Sal        | Frac          | 281    | 400         | 2161    | Pool  | RT      |                              |
| 1603                  | Clinton    | L 14 (2Q)     | 430 NL 3530 WL  |          | B. A. Floto & Assoc.      | B-3   | C. Perrin                   |              |            |               |        |             |         | Pool  | CT      | Active                       |
| 1604                  | Hilliar    | L 21 (3Q)     | 500 NL 985 WL   |          | Kin-Ark Oil Co.           | 1     | C. G. Huffman               | 12-31        | €det       | --            | --     | --          | 4807    | FWC   | RT      |                              |
| 1605                  | Harrison   | S 21          | 360 NL 622 WL   | NW       | Lawrence Moran            | 1     | P. Davis                    |              |            |               |        |             |         | Pool  | CT      | Active                       |
|                       |            | SUMMARY       | GAS-4           | OIL-31   | COMBINATION-9             |       | DRY-32                      | TOTAL-76     |            |               | 11,046 | 2,395       | 261,564 | FEET  |         |                              |
| OLD WELLS WORKED OVER |            |               |                 |          |                           |       |                             |              |            |               |        |             |         |       |         |                              |
| 169                   | Union      | S 4           | 655 NL 600 EL   | SE       | D. E. Ridgeway(Upham Gas) | 1     | H. & M. Banbury             | 1937         | Sal        | --            | --     | --          | 2840    | Pool  | CT      | Abd. Unable to find old hole |
| 1563                  | Butler     | S 21          | 300 SL 1660 EL  | SE       | Preston Oil Co.           | 2     | A. J. Beatty                | 1930         | Sal        | --            | --     | --          | 3149    | Pool  | CT      | Show oil & gas               |
|                       |            | SUMMARY       | WORKED OVER-2   |          |                           |       |                             |              |            |               |        |             |         |       |         |                              |
| OLD WELLS ABANDONED   |            |               |                 |          |                           |       |                             |              |            |               |        |             |         |       |         |                              |
| 194                   | Union      | S 23          | 460 SL 610 WL   | NW       | Ohio Fuel Gas Co.         | 1     | H. A. Lower(M. Mills)       | 1938         | Sal        | ?             | ?      | --          | 2960    | Pool  | CT      | Abd. 7-10                    |
| 197                   | Jackson    | S 11          |                 |          | V. J. Wilson Co.          | 1     | M. E. Clary                 | ?            | Sal        | ?             | ?      | --          | 3181?   | Pool  | CT      | Abd. 7-17                    |
| 288                   | Union      | S 17          | 2100 SL 600 EL  | SE       | R. Wray (Ohio Fuel Gas)   | 1     | A. K. Dawson                | 1941         | Sal        | ?             | ?      | --          | 3015    | Pool  | CT      | Abd. 1-3                     |
| 598                   | Jackson    | S 6           | 200 SL 1480 EL  |          | Shuff & Bucy              | 1     | C. C. Harris                | 1951         | Sal        | ?             | ?      | ?           | 2814    | Pool  | CT      | Abd. 5-27                    |
| 648                   | Jackson    | S 20          | 200 NL 1100 EL  | NE       | K & L O. & G. (K. Miller) | 2     | A. W. Shoults               | 1952         | Sal        | Shot          | 150    | 62          | 3142    | Pool  | CT      | Abd. 5-7                     |

## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township    | Land Division | Location             | Operator | Well No.                | Lease | Date Comp.             | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |            |
|---------------------|-------------|---------------|----------------------|----------|-------------------------|-------|------------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|------------|
|                     |             |               |                      |          |                         |       |                        |              |            | MCFGPD        | BOPD |             |        |       |         |            |
| KNOX COUNTY (con.)  |             |               |                      |          |                         |       |                        |              |            |               |      |             |        |       |         |            |
| 903                 | Jackson     | S 18          | 990 SL 300 EL        | SE       | C. A. Davis (Sands Co.) | 2     | Carl Harris            | 1954         | Sal        | Frac          | 304  | 10          | 3036   | Pool  | CT      | Abd. 7-14  |
| 932                 | Jackson     | S 11          | 360 NL 1580 EL       | SE       | C. A. Davis (Sands Co.) | 3     | A. W. Shoults          | 1954         | Sal        | Frac          | 65   | 42          | 3096   | Pool  | CT      | Abd. 4-4   |
| 955                 | Jackson     | S 11          | 400 NL 2280 EL       | SE       | C. A. Davis (Sands Co.) | 4     | A. W. Shoults          | 1954         | Sal        | Frac          | 869  | 42          | 3033   | Pool  | CT      | Abd. 3-25  |
| 973                 | Jackson     | S 23          | 1320 NL 330 EL       | Twp.     | National G. & O. Co.    | 3     | F. Ashcraft            | 1954         | Sal        | Frac          | --   | 100         | 3024   | Pool  | CT      | Abd. 4-13  |
| 1030                | Jackson     | S 11          | 250 SL 2280 EL       | SE       | C. A. Davis (Sands Co.) | 5     | A. W. Shoults          | 1955         | Sal        | Frac          | --   | 30          | 3030   | Pool  | CT      | Abd. 3-20  |
| 1071                | Jackson     | S 11          | 490 NL 210 WL        | SE       | C. A. Davis (Sands Co.) | 6     | A. W. Shoults          | 1955         | Sal        | Frac          | --   | 10          | 3110   | Pool  | CT      | Abd. 5-11  |
| 1079                | Butler      | S 1           | 480 SL 900 WL        |          | Harlan O. & G. Co.      | 1     | H. D. Stricker         | 1955         | Sal        | Frac          | 1000 | 150         | 3201   | Pool  | CT      | Abd. 8-11  |
| 1104                | Jefferson   | S 2           | 1018 SL 1980 WL      | NE       | H. B. Rogovy (Buckeye)  | 2     | Druzilla Rice          | 1956         | Sal        | Frac          | --   | 110         | 2840   | Pool  | CT      | Abd. 5-12  |
| 1130                | Union       | L 6 (1Q)      | 400 NL 330 EL        |          | Pure Oil (W. F. Glass)  | 1     | Ida Sevits             | 1956         | Sal        | Frac          | 25   | 66          | 3160   | Pool  | CT      | Abd. 10-5  |
| 1146                | Butler      | L 14          | 330 NL 330 EL        |          | Harlan O. & G. Co.      | 2     | H. D. Stricker         | 1956         | Sal        | Frac          | ?    | 40          | 3223   | Pool  | CT      | Abd. 8-3   |
| 1205                | Union       | L 5 (1Q)      | 135 NL 340 EL        |          | Pure Oil Co.            | 2     | Ida Sevits             | 1957         | Sal        | Frac          | 20   | 81          | 3085   | Pool  | CT      | Abd. 10-12 |
| 1331                | Jackson     | S 16          | 330 NL 1765 WL       |          | Natol Pet. Corp.        | 1     | Parker Rine            | 1960         | Sal        | Frac          | --   | 35          | 2766   | Pool  | CT      | Abd. 1-9   |
| 1474                | Jackson     | S 11          | 600 NL 1500 WL       | NW       | Pure Oil Co.            | 1     | Emma McCament          | 1938         | Sal        | ?             | 82   | 90          | 3197   | Pool  | CT      | Abd. 3-25  |
| 1505                | Howard      | L 7 (2Q)      | 1600 SL 400 WL       |          | Ohio Fuel Gas Co.       | 2     | T. J. Porter           | 1920         | Sal        | ?             | 200  | --          | 2632   | Pool  | CT      | Abd. 2-28  |
| 1509                | Brown       | S 11          | 500 NL 2200 EL       | SE       | Ohio Fuel Gas Co.       | 1     | D. E. Lifer            | 1922         | Sal        | ?             | ?    | --          | 2714   | Pool  | CT      | Abd. 5-19  |
| 1513                | Brown       | L 8 (3Q)      | 725 SL 660 WL        |          | Ohio Fuel Gas Co.       | 3     | J. Kline (J. Drake)    | 1928         | Sal        | Nat           | 1332 | --          | 2827   | Pool  | CT      | Abd. 4-30  |
| 1539                | Union       | S 18          |                      |          | Ohio Cumberland Gas     | 161   | Sherman-Elliott        | 1939         | Sal        | ?             | ?    | --          | 3190   | Pool  | CT      | Abd. 7-14  |
| 1549                | Brown       | S 24          | 400 NL 185 WL        | SE       | Ohio Fuel Gas Co.       | 1     | Colopy Heirs           | 1921         | Sal        | Nat           | ?    | --          | 2623   | Pool  | CT      | Abd. 8-12  |
|                     |             | SUMMARY       | ABANDONED-23         |          |                         |       |                        |              |            |               |      |             |        |       |         |            |
| STORAGE             |             |               |                      |          |                         |       |                        |              |            |               |      |             |        |       |         |            |
|                     | Butler      |               |                      |          | Ohio Fuel Gas Co.       |       | "Clinton" storage area |              |            |               |      |             |        |       |         |            |
|                     |             | SUMMARY       | STORAGE-1            |          | TOTAL FEET-3012         |       |                        |              |            |               |      |             |        |       |         |            |
| BRINE WELLS         |             |               |                      |          |                         |       |                        |              |            |               |      |             |        |       |         |            |
| 1544                | Monroe      | L 16 (1Q)     | 2060 NL 800 WL       |          | Salbri, Inc.            | 3     | Ethel Irvine           | 7-7          | Snb        | --            | --   | --          | 2359   | Pool  | CT      | Hwy. brine |
|                     |             | SUMMARY       | BRINE-1              |          |                         |       |                        |              |            |               |      |             |        |       |         |            |
| LAKE COUNTY         |             |               |                      |          |                         |       |                        |              |            |               |      |             |        |       |         |            |
| OLD WELLS ABANDONED |             |               |                      |          |                         |       |                        |              |            |               |      |             |        |       |         |            |
| 18                  | Painesville | L 24          | 75 SL 250 EL         |          | Morton Salt Co.         | 2     | New York Central R.R.  | 1953         | Dor        | ?             | 4000 | --          | 1538   | Pool  | CT      | Abd. 11-5  |
| 98                  | Willoughby  | Townsite      | 107 SL 9 EL property |          | Reider Homes            | 1     | Reider Homes           | ?            | Doh        | ?             | ?    | --          | 900?   | Pool  | CT      | Abd. 9-8   |
|                     |             | SUMMARY       | ABANDONED-2          |          |                         |       |                        |              |            |               |      |             |        |       |         |            |



## LIST OF OPERATIONS DURING 1964

| Permit Number           | Township   | Land Division | Location           | Operator                  | Well No. | Lease            | Date Comp.   | Deepest Unit | Type Comp. | Initial Prod. |          | Total Depth   | Class. | Tools | Remarks         |
|-------------------------|------------|---------------|--------------------|---------------------------|----------|------------------|--------------|--------------|------------|---------------|----------|---------------|--------|-------|-----------------|
|                         |            |               |                    |                           |          |                  |              |              |            | MCFGPD        | BOPD     |               |        |       |                 |
| LAWRENCE COUNTY         |            |               |                    |                           |          |                  |              |              |            |               |          |               |        |       |                 |
| 174                     | Symmes     | S 13          | 1178 SL 1150 WL SW | Harvey L. Starr           | 1        | A. J. Payne      |              |              |            |               |          |               | FWC    | CT    | OWDD            |
| 178                     | Aid        | S 12          | 1106 SL 1118 WL SW | Kin-Ohio Corp. (H. Starr) | 1        | W. R. Jett       |              |              |            |               |          |               | Out    | CT    | Active          |
| 180                     | Mason      | S 31          | 485 SL 980 EL SW   | Lyman I. Siler            | 1        | J. & M. Redden   |              |              |            |               |          |               | FWC    | CT    | Active          |
| 181                     | Decatur    | S 13          | 4158 NL 1545 WL    | Dalton & Hanna Co.        | 1-A      | U. S. A.         |              |              |            |               |          |               | Out    | CT    | Active          |
| 182                     | Symmes     | S 22          | 2160 SL 681 WL SW  | Dalton & Hanna Co.        | 1-B      | U. S. A.         |              |              |            |               |          |               | Pool   | CT    | Active          |
|                         |            | SUMMARY       | GAS-0 OIL-0        | COMBINATION-0             |          | DRY-0 TOTAL-0    |              |              |            | 0             | 0        | 0 FEET        |        |       |                 |
| OLD WELL DRILLED DEEPER |            |               |                    |                           |          |                  |              |              |            |               |          |               |        |       |                 |
| 174                     | Symmes     | S 13          | 1178 SL 1150 WL SW | Harvey L. Starr           | 1        | A. J. Payne      | 1961<br>1963 | Sal<br>C?    | --<br>--   | --<br>--      | --<br>-- | 2800?<br>3275 | FWC    | CT    | New footage-475 |
|                         |            | SUMMARY       | DRILLED DEEPER-1   |                           |          |                  |              |              |            | 0             | 0        | 475 FEET      |        |       |                 |
| OLD WELL ABANDONED      |            |               |                    |                           |          |                  |              |              |            |               |          |               |        |       |                 |
| 163                     | Windsor    | S 18          | 2140 SL 300 WL SW  | Linville Gas Co.          | 1        | C. W. Hopkins    | 1953         | Mbe          | Shot       | 131           | --       | 2395          | Pool   | CT    | Abd. 10-20      |
|                         |            | SUMMARY       | ABANDONED-1        |                           |          |                  |              |              |            |               |          |               |        |       |                 |
| LICKING COUNTY          |            |               |                    |                           |          |                  |              |              |            |               |          |               |        |       |                 |
| 1131                    | Fallsbury  | S 19          | 1674 SL 432 EL NW  | Lincoln Oil Co. (Mutual)  | 1        | W. E. McDonald   |              |              |            |               |          |               | Pool   | CT    | OWWO            |
| 2007                    | Fallsbury  | S 7           | 230 SL 1745 WL SW  | Fred F. Cannon            | 3        | E. & S. Cullison | 2-2          | Sal          | Frac       | --            | 98       | 3010          | Pool   | CT    |                 |
| 2018                    | Fallsbury  | S 9           | 2340 SL 1880 WL SW | Don Henthorne             | 2        | Billman & Horn   | 8-8          | Sal          | Frac       | --            | 50       | 3125          | Pool   | CT    |                 |
| 2029                    | Perry      | S 9           | 750 NL 1320 WL SW  | K. L. Baughman            | 13       | Roy Baughman     | ?            | Sal          | --         | --            | --       | 2908          | Pool   | CT    |                 |
| 2032                    | Licking    | L 14          | 60 NL 300 EL SE    | Sharon Rose Gas Co.       | 4        | R. E. Brown      |              |              |            |               |          |               | Pool   | CT    | Canceled        |
| 2043-1                  | Madison    | L 7           | 2200 SL 460 WL     | Croup & Sensabaugh        | 1        | F. & E. Kreager  | 6-1          | Mbe          | --         | --            | --       | 580           | Pool   | CT    |                 |
| 2043-2                  | Madison    | L 7           | 1940 SL 800 WL     | Croup & Sensabaugh        | 2        | F. & E. Kreager  |              |              |            |               |          |               | Pool   | CT    | Canceled        |
| 2054                    | Fallsbury  | S 9           | 1300 NL 1300 WL SW | W. E. Shrider             | 2        | Fred Pound       | 1963         | Sal          | Frac       | 500           | 100      | 2988          | Pool   | CT    |                 |
| 2057                    | Hartford   | L 2 (3Q)      | 1800 SL 330 EL     | Howard D. Atha            | 1        | H. & M. Roberts  |              | Cdet         | --         | --            | --       | 4952          | FWC    | RT    |                 |
| 2059-1A                 | Fallsbury  | S 11          | 700 NL 785 WL NE   | Raysam Enterprises        | 1-A      | Ernest Ashcraft  |              |              |            |               |          |               | Pool   | CT    | Canceled        |
| 2059-2A                 | Fallsbury  | S 11          | 920 NL 450 WL NE   | Raysam Enterprises        | 2-A      | Ernest Ashcraft  |              |              |            |               |          |               | Pool   | CT    | Canceled        |
| 2061                    | Perry      | L 20 (4Q)     | 450 SL 1290 WL     | Natol Pet. Corp.          | 3        | Fred Walcott     | 1-3          | Sal          | Frac       | --            | 25       | 3044          | Pool   | CT    |                 |
| 2062                    | Fallsbury  | S 9           | 330 NL 620 WL SW   | Carl Kinsey               | 1        | D. VanWinkle     | 1963         | Sal          | Frac       | 188           | 30       | 2948          | Pool   | CT    |                 |
| 2064                    | Hopewell   | S 22          | 175 SL 400 WL SE   | Waverly Oil Works         | 3        | M. E. Day        | 1-4          | Sal          | Frac       | --            | 50       | 3068          | Pool   | CT    |                 |
| 2067                    | St. Albans | L 10 (4Q)     | 1200 SL 330 WL     | Southern Triangle Oil     | 1        | J. C. Preston    | 1-10         | Ccr          | --         | --            | --       | 4253          | FWC    | RT    |                 |
| 2069                    | Perry      | L 13 (4Q)     | 350 NL 350 WL      | Wheeler Dlg. Co.          | 1        | Paul Osborn      | 1-8          | Sal          | Frac       | --            | 40       | 3100          | Pool   | CT    |                 |
| 2070                    | Perry      | L 29 (4Q)     | 592 SL 500 EL      | Natol Pet. Corp.          | 1        | Clyde Fleming    | 1-20         | Sal          | Frac       | --            | 25       | 3090          | Pool   | CT    |                 |
| 2071                    | Perry      | L 31 (4Q)     | 535 NL 400 WL      | Natol Pet. Corp.          | 1        | J. W. Nethers    | 1-28         | Sal          | Frac       | --            | 50       | 3065          | Pool   | CT    |                 |
| 2072                    | Fallsbury  | S 15          | 938 NL 400 WL NE   | Well Investments, Inc.    | 1        | John Willey      | 2-10         | Sal          | Frac       | 1260          | 50       | 3080          | Pool   | CT    |                 |
| 2073                    | Fallsbury  | S 1           | 400 SL 400 EL SE   | J. L. Burns Dlg. Co.      | 3-1      | Glenna Totman    | 2-4          | Sal          | Frac       | 500           | 15       | 2974          | Pool   | CT    |                 |

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township      | Land Division | Location          | Operator | Well No.               | Lease | Date Comp.            | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |  |
|-----------------------|---------------|---------------|-------------------|----------|------------------------|-------|-----------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|--|
|                       |               |               |                   |          |                        |       |                       |              |            | MCFGPD        | BOPD |             |        |       |         |  |
| LICKING COUNTY (con.) |               |               |                   |          |                        |       |                       |              |            |               |      |             |        |       |         |  |
| 2074                  | Fallsbury     | S 9           | 400 SL 400 WL     | NE       | W. E. Shrider          | 1     | Denzil Little         | 2-18         | Sal        | Frac          | --   | 180         | 3073   | Pool  | CT      | OW Abd.<br>Oil 5 BPD                     |
| 2075                  | Perry         | L 14 (4Q)     | 330 NL 1180 EL    |          | Reliance Oil Corp.     | 2     | Everett Alyban        | 2-14         | Sal        | Frac          | 100  | 30          | 3206   | Pool  | CT      |  |
| 2076                  | Granville     | L 9           |                   |          | Ohio Fuel Gas Co.      | 2     | D. R. Owens           |              |            |               |      |             |        | Pool  | CT      |  |
| 2077                  | Hanover       | L 17 (1Q)     | 5800 SL 1520 WL   | Twp.     | Roy H. Penick          | 1-A   | H. E. Drumm           | 2-?          | Sal        | Frac          | --   | --          | 2860   | Pool  | CT      |  |
| 2078                  | Franklin      | L 3 (2Q)      | 5580 SL 1400 WL   | Twp.     | Sharon Rose Gas Co.    | 2     | Lulu Kinney           | 1-21         | Mbe        | Shot          | --   | 5           | 715    | Pool  | CT      |  |
| 2079                  | Mary Ann      | L 11 (4Q)     | 240 SL 1080 WL    |          | Hickman & Donaker      | 5-A   | G. Long               | 1-22         | Mbe        | Shot          | --   | 4           | 800    | Pool  | CT      | OW Abd.<br>OW Abd.<br>OW Abd.<br>OW Abd. |
| 2080                  | Burlington    | L 17 (4Q)     | 2100 SL 4000 EL   |          | Ohio Fuel Gas Co.      | 2     | P. Warner(McNamara)   |              |            |               |      |             |        | Pool  | CT      |  |
| 2081                  | Eden          | S 25          | 1980 SL 760 WL    | SE       | Ohio Fuel Gas Co.      | 1     | Berger(Neighbarger)   |              |            |               |      |             |        | Pool  | CT      |  |
| 2082                  | Newark        | (1Q)          | 5700 NL 1020 EL   | Twp.     | Ohio Fuel Gas Co.      | 1     | Harold Macklin        |              |            |               |      |             |        | Pool  | CT      |  |
| 2083                  | Washington    | L 11 (4Q)     | 55 NL 1632 WL     |          | Ohio Fuel Gas Co.      | 2     | Guy Hunt              |              |            |               |      |             |        | Pool  | CT      |  |
| 2084                  | Perry         | S 4           | 940 SL 560 WL     | NW       | Natol Pet. Corp.       | 1     | M. Thornton           | 3-25         | Sal        | Frac          | --   | 20          | 3012   | Pool  | CT      | Replaced by P-2095                       |
| 2085                  | Perry         | L 13 (4Q)     | 660 NL 600 EL     |          | Reliance Oil Corp.     | 1     | H. L. Mummey          | 4-7          | Sal        | Frac          | 600  | 30          | 3092   | Pool  | CT      |  |
| 2086                  | Perry         | S 17          | 900 NL 500 EL     | NW       | Wheeler Dig. Co.       | 6     | Alta Baughman         | 5-20         | Mbe        | --            | --   | --          | 637    | Pool  | CT      |  |
| 2087                  | Hopewell      | S 12          | 1140 SL 650 EL    | SE       | W. J. Kamman & Assoc.  | 1     | Earl Frampton         | 3-27         | Sal        | Frac          | 600  | 5           | 3241   | Pool  | CT      |  |
| 2088                  | Bowling Green | S 2           | 2160 SL 1700 EL   |          | Lydle O. & G. Prod.    | 1     | L. & F. Heidorn       | 3-27         | Sal        | Frac          | 350  | 5           | 2836   | Pool  | CT      |  |
| 2089                  | Hanover       | L 16 (1Q)     | 4620 SL 2775 WL   | Twp.     | Aztec Prod. Co.        | 7     | H. & M. Claypool      |              |            |               |      |             |        | Pool  | CT      | Canceled                                 |
| 2090                  | Franklin      | L 15 (2Q)     | 1060 SL 800 WL    |          | Hoover Dig. Co.        | 10    | M. E. Tavener         | 11-30        | Mbe        | Shot          | --   | 10          | 697    | Pool  | CT      |  |
| 2091                  | Fallsbury     | S 20          | 1600 NL 1200 WL   | SW       | Wilbur McDonald        | 2     | N. & M. Burkhardt     |              |            |               |      |             |        | Pool  | CT      |  |
| 2092                  | Perry         | S 13          | 1330 NL 1720 WL   | NE       | Bech Oil Co.           | 1     | C. & A. Wright        | 5-4          | Sal        | Frac          | 200  | 80          | 2911   | Pool  | CT      |  |
| 2093                  | Fallsbury     | S 20          | 1260 SL 840 WL    | SW       | Wilbur McDonald        | 2     | N. & M. Burkhardt     | 4-22         | Sal        | Frac          | --   | --          | 2893   | Pool  | CT      |  |
| 2094                  | Eden          | S 10          | 1429 NL 393 EL    | NE       | Kidd & McKee Dig.      | 2     | Charles Kidd          | 10-?         | Sal        | Frac          | 116  | 50          | 2907   | Pool  | CT      | Replaces P-2089                          |
| 2095                  | Hanover       | L 16 (1Q)     | 1494 SL 509 EL    |          | Aztec Prod. Co.        | 7     | H. & M. Claypool      | 4-30         | Sal        | Frac          | --   | 30          | 2898   | Pool  | CT      |  |
| 2096                  | Fallsbury     | S 9           | 400 SL 1425 WL    | NE       | W. E. Shrider          | 2     | D. W. Little          | 4-16         | Sal        | Frac          | --   | 125         | 3101   | Pool  | CT      |  |
| 2097                  | Fallsbury     | S 11          | 175 NL 1103 EL    | NE       | Waverly Oil Works      | 1     | Zelda Ashcraft        | 5-18         | Sal        | Frac          | --   | 80          | 2990   | Pool  | CT      |  |
| 2098                  | Perry         | L 14          | 489 NL 330 WL     |          | Reliance Oil Corp.     | 1     | Webb-McDonald         | 5-12         | Sal        | Frac          | --   | 25          | 3221   | Pool  | CT      |  |
| 2099                  | Perry         | L 14 (4Q)     | 400 SL 1072 WL    |          | Carl E. Smith          | 1     | F. E. Westbrook       | 6-2          | Sal        | Frac          | --   | 100         | 3081   | Pool  | CT      | Gas 25 MCF                               |
| 2100                  | Perry         | L 12          | 275 SL 1224 WL    |          | Reliance Oil Corp.     | 1     | W. E. Osborn          | 5-14         | Sal        | Frac          | --   | 25          | 3086   | Pool  | CT      |  |
| 2101                  | Fallsbury     | S 24          | 860 SL 922 EL     | SW       | Bech Oil Co.           | 1?    | E. Bucey              | 5-25         | Sal        | Frac          | 1000 | 400         | 3100   | Pool  | CT      |  |
| 2102                  |               |               | No data available |          |                        |       |                       |              |            |               |      |             |        |       |         |  |
| 2103                  | Perry         | L 32 (4Q)     | 330 NL 1022 EL    |          | Roy H. Penick          | 1     | O. H. Nethers         | 6-9          | Sal        | Frac          | 250  | 25          | 3102   | Pool  | CT      |  |
| 2104                  | Fallsbury     | S 13          | 1838 NL 400 WL    | NE       | Well Investments, Inc. | 1     | L. & B. Nelson        | 5-21         | Sal        | Frac          | 256  | 100         | 3090   | Pool  | CT      | OW Abd.                                  |
| 2105                  | Fallsbury     | S 7           | 1006 SL 772 EL    | SE       | Carl E. Smith          | 2     | P. & C. Morrow        | 6-4          | Sal        | Frac          | --   | 20          | 2954   | Pool  | CT      |  |
| 2106                  | Granville     | L 6           | 370 SL 300 WL     |          | Ohio Fuel Gas Co.      | 1     | H. Randolph(N. Owens) |              |            |               |      |             |        | Pool  | CT      |  |
| 2107                  | Bowling Green | S 1-E         | 2118 SL 500 WL    |          | Lydle O. & G. Prod.    | 1     | P. & D. Hupp          | 5-22         | Sal        | Frac          | 213  | 12          | 2847   | Pool  | CT      |  |
| 2108                  | Perry         | S 1           | 1325 SL 330 WL    | SW       | Reliance Oil Corp.     | 2     | L. E. Brown           | 6-22         | Sal        | --            | --   | --          | 2959   | Pool  | CT      |  |
| 2109                  | Perry         | L 19          | 406 NL 420 WL     |          | Natol Pet. Corp.       | 1     | A. L. Lewis           | 6-16         | Sal        | Frac          | 300  | 85          | 3063   | Pool  | CT      | OW Abd.<br>Abd. 11-13                    |
| 2110                  | Perry         | S 13          | 1135 NL 510 EL    | NW       | Bech Oil Co.           | 2     | Clyde Wright          | 6-15         | Sal        | Frac          | 400  | 30          | 2995   | Pool  | CT      |  |
| 2111                  | Perry         | S 10          |                   |          | Waverly Oil Works      | 3     | Frank Phillips        |              |            |               |      |             |        | Pool  | CT      |  |
| 2112                  | Fallsbury     | S 19          | 206 SL 892 WL     | SW       | Dale McDonald          | 4     | W. L. McDonald        | 10-8         | Mbe        | Shot          | --   | 1           | 762    | Pool  | CT      |  |
| 2113                  | Perry         | L 7           | 336 NL 330 WL     |          | Bech Oil Co.           | 3     | O. & A. Wilson        | 7-8          | Sal        | Frac          | 100  | 25          | 2998   | Pool  | CT      |  |
| 2114                  | Newark        | (1Q)          | 7380 NL 2750 EL   |          | Ohio Fuel Gas Co.      | 1     | T. P. Edwards         |              |            |               |      |             |        | Pool  | CT      | OW Abd.                                  |
| 2115                  | Granville     | L 3 (2Q)      | 500 SL 2900 EL    |          | Ohio Fuel Gas Co.      | 1     | Moses Goodrich        |              |            |               |      |             |        | Pool  | CT      | OW Abd.                                  |
| 2116                  | Perry         | L 16          | 430 NL 779 WL     |          | Ed H. Everett          | 2     | Edgar Evans           | 8-6          | Sal        | --            | --   | --          | 3097   | Pool  | CT      | OW Abd.                                  |
| 2117                  | Perry         | S 3           | 940 NL 2400 WL    | NW       | Twin Oaks O. & G.      | 1     | Arthur Evans          |              |            |               |      |             |        | Pool  | CT      |  |
| 2118                  | Fallsbury     | S 24          | 640 SL 940 WL     | SW       | George M. Gernhardt    | 1     | Pearl Sites           | ?            | Sal        | Frac          | 300  | 100         | 3085   | Pool  | CT      |  |

## LIST OF OPERATIONS DURING 1964

| Permit<br>Number      | Township      | Land<br>Division | Location            | Operator | Well<br>No.              | Lease | Date<br>Comp.      | Deepest<br>Unit | Type<br>Comp. | Initial Prod. |      | Total<br>Depth | Class. | Tools | Remarks |                 |
|-----------------------|---------------|------------------|---------------------|----------|--------------------------|-------|--------------------|-----------------|---------------|---------------|------|----------------|--------|-------|---------|-----------------|
|                       |               |                  |                     |          |                          |       |                    |                 |               | MCFGPD        | BOPD |                |        |       |         |                 |
| LICKING COUNTY (con.) |               |                  |                     |          |                          |       |                    |                 |               |               |      |                |        |       |         |                 |
| 2119                  | Perry         | S 12             | 330 NL 350 EL       | SW       | C. Smith & J. Montgomery | 1     | Jesse Montgomery   | 9-18            | Sal           | Frac          | --   | 55             | 2923   | Pool  | CT      | Gas 7 MCF       |
| 2120                  | Newton        | L 2 (1Q)         | 1105 NL 367 WL      |          | Harry A. Armbruster      | 9     | R. & M. Sprunger   | 7-27            | Mbe           | Shot          | --   | 6              | 660    | Pool  | CT      |                 |
| 2121                  | Perry         | L 32 (4Q)        | 610 SL 1180 EL      |          | Roy H. Penick            | 2-A   | O. H. Nethers      | 8-4             | Sal           | Frac          | 225  | 10             | 3031   | Pool  | CT      |                 |
| 2122                  | Perry         | S 13             | 530 SL 990 WL       | NE       | Bech Oil Co.             | 4-3   | Clyde Wright       | 8-7             | Sal           | Frac          | 100  | 30             | 3021   | Pool  | CT      |                 |
| 2123                  | Jersey        | L 34             | 330 NL 330 WL       |          | Little Swiss O. & G.     | 1     | Peter Anderson     |                 |               |               |      |                |        | FWC   | CT      | Abd. loc.       |
| 2124                  | Perry         | S 7              | 610 SL 330 EL       | SE       | Bech Oil Co.             | 2     | F. Waschman        | 8-11            | Sal           | Nat           | 1629 | --             | 2954   | Pool  | CT      |                 |
| 2125                  | Newark        |                  | 276 N Rl. 16 124 EL |          | Park Union Corp.         | 1     | Roe Emerson        |                 |               |               |      |                |        | Pool  | CT      | OW Abd.         |
|                       |               |                  | property            |          |                          |       |                    |                 |               |               |      |                |        |       |         |                 |
| 2126                  | Fallsbury     | S 13             | 1120 SL 1000 WL     | NW       | O. & G. Co.              | 4     | T. & M. Ryan       | 8-4             | Sal           | Frac          | --   | 40             | 3084   | Pool  | CT      |                 |
| 2127                  | Perry         | S 7              | 1189 NL 1765 EL     | NE       | W. P. Hoover             | 1     | T. & E. Hito       | 8-15            | Sal           | Frac          | 530  | 30             | 3017   | Pool  | CT      |                 |
| 2128                  | Fallsbury     | S 11             | 550 SL 374 WL       | SW       | Oxford Oil Co.           | 1     | W. L. McDonald     | 9-10            | Sal           | Frac          | 300  | 59             | 2952   | Pool  | CT      |                 |
| 2129                  | Eden          | S 17             | 1150 NL 2050 EL     | NE       | Jerry Moore, Inc.        | 1     | R. & V. Swick, Jr. | 8-10            | Ccr           | --            | --   | --             | 5100   | DPWC  | RT      |                 |
| 2130                  | Eden          | S 7              | 875 SL 750 WL       | SW       | Jerry Moore, Inc.        | 1     | D. & E. Beatty     | 7-30            | Ccr           | --            | --   | --             | 5013   | DPWC  | RT      |                 |
| 2131                  | Perry         | S 8              | 1195 SL 1715 EL     | SW       | Croup & Sensabaugh       | 2     | J. & C. Hornby     | 9-11            | Mbe           | Shot          | --   | 3              | 753    | Pool  | CT      |                 |
| 2132                  | Perry         | S 13             | 1400 NL 1170 EL     | NW       | Bech Oil Co.             | 1-6   | W. Denman          | 9-10            | Sal           | Frac          | --   | 20             | 2985   | Pool  | CT      | Gas 50 MCF      |
| 2133                  | Fallsbury     | S 19             | 237 NL 900 EL       | NW       | Lincoln Oil Well Service | 2     | W. E. McDonald     | 8-28            | Sal           | Frac          | 252  | 40             | 3074   | Pool  | CT      |                 |
| 2134                  | Fallsbury     | S 2              | 287 NL 821 WL       | SE       | H. & D. Dlg. Co.         | 1     | M. & J. Reber      | 8-14            | Mbe           | --            | --   | --             | 657    | Pool  | CT      |                 |
| 2135                  | McKean        | L 13             | 330 SL 330 WL       | Twp.     | Ego Oil Co.              | 1     | Frederick Smith    | 8-22            | Ccr           | --            | --   | --             | 4513   | FWC   | RT      |                 |
| 2136                  | Hanover       |                  | 3220 SL 6160 WL     | NE Twp.  | Roy H. Penick            | 1-A   | E. Francis         | 10-2            | Sal           | ?             | --   | --             | 2899   | Pool  | CT      | Oil 8 BPD       |
| 2137                  | Perry         | S 13             | 330 NL 1020 WL      | NE       | Bech Oil Co.             | 4     | Clyde Wright       | 9-19            | Sal           | Frac          | --   | 20             | 3020   | Pool  | CT      | Gas 30 MCF      |
| 2138                  | Perry         | S 13             | 597 SL 435 EL       | NW       | Bech Oil Co.             | 5     | Clyde Wright       | 9-21            | Sal           | Frac          | --   | 26             | 3020   | Pool  | CT      | Gas 20 MCF      |
| 2139                  | Perry         | S 7              | 1990 SL 330 EL      | SE       | Bech Oil Co.             | 2     | F. Wocksman        | 9-11            | Sal           | Frac          | 100  | 30             | 2906   | Pool  | CT      |                 |
| 2140                  | Mary Ann      | L 11 (4Q)        |                     |          | Hickman & Donaker        | --    | George Long        |                 |               |               |      |                |        |       |         | OW Abd. 3 wells |
| 2141                  | Bowling Green | S 15             | 820 NL 456 EL       | NW       | Reliance Oil Corp.       | 1-A   | V. & G. Mack       | 10-15           | Sal           | Frac          | 100  | 40             | 2910   | Pool  | CT      |                 |
| 2142                  | Madison       | L 14 (1Q)        | 360 SL 400 EL       |          | W. J. Kamman & Assoc.    | 1     | A. & L. Jones      | 10-3            | Sal           | Frac          | 100  | 20             | 2737   | Pool  | CT      |                 |
| 2143                  | Bennington    | L 4 (3Q)         | 1458 NL 601 EL      |          | Hard Creek Gas Co.       | 3     | R. Van Fossen      | 9-26            | Sal           | Nat           | 84   | --             | 2144   | Pool  | CT      |                 |
| 2144                  | Bowling Green | S 1-E            | 600 SL 500 EL       |          | Oxford Oil Co.           | 1     | D. & D. Iden       | 10-12           | Sal           | Frac          | 500  | 50             | 3050   | Pool  | CT      |                 |
| 2145                  | Fallsbury     | S 3              | 230 NL 30 WL        | SW       | Carl E. Smith            | 2     | Carey Norris       | 11-20           | Sal           | Frac          | --   | 150            | 2993   | Pool  | CT      |                 |
| 2146                  | Fallsbury     | S 12             | 600 SL 500 EL       | SE       | Oxford Oil Co.           | 3     | U. A. Moran        | 10-28           | Sal           | Frac          | 100  | 25             | 3056   | Pool  | CT      |                 |
| 2147                  | Perry         | S 13             | 330 NL 510 EL       | NW       | Bech Oil Co.             | 6     | Clyde Wright       | 11-2            | Sal           | Frac          | 100  | 8              | 2911   | Pool  | CT      |                 |
| 2148                  | Hopewell      | S 22             | 300 SL 600 EL       | SW       | Waverly Oil Works        | 4     | W. W. Holmes       | 11-16           | Sal           | Frac          | --   | 20             | 3126   | Pool  | CT      |                 |
| 2149                  | Bowling Green | S 14E            | 1170 NL 1450 EL     | SE       | Midland Oil Co.          | 1     | F. & C. DeRolph    | 11-27           | Sal           | Frac          | 162  | 25             | 2988   | Pool  | CT      |                 |
| 2150                  | Perry         | S 13             | 1600 NL 250 WL      | NW       | Bech Oil Co.             | 2     | N. S. Denman       | 10-31           | Sal           | Frac          | 150  | 20             | 2855   | Pool  | CT      |                 |
| 2151                  | Fallsbury     | S 24             | 100 SL 922 EL       | SW       | Bech Oil Co.             | 3     | Everett Bucey      | 10-31           | Sal           | Frac          | 100  | 20             | 3129   | Pool  | CT      |                 |
| 2152                  | Fallsbury     | S 12             | 450 SL 330 EL       | SW       | Lincoln Oil Well Service | 1     | W. E. McDonald     | 11-16           | Sal           | Frac          | --   | 100            | 3105   | Pool  | CT      |                 |
| 2153                  | Fallsbury     | S 9              | 886 SL 506 EL       | SW       | Don Henthorne            | 3     | Billman & Horn     |                 |               |               |      |                |        | Pool  | CT      | Active          |
| 2154                  | Hopewell      | S 23             | 850 SL 350 WL       | NE       | Waverly Oil Works        | 3     | Sarah Uffner       | 11-23           | Sal           | --            | --   | --             | 3390   | Pool  | CT      |                 |
| 2155                  | Hanover       | L 10 (1Q)        | 1693 NL 1977 EL     |          | Carl E. Smith            | 1     | Frank Westbrook    | 12-12           | Sal           | Frac          | --   | 30             | 2964   | Pool  | CT      |                 |
| 2156                  | Fallsbury     | S 24             | 818 SL 260 WL       | SE       | G. Allen Willey          | 1     | J. & M. Thornton   | 11-28           | Sal           | Frac          | --   | 40             | 2996   | Pool  | CT      |                 |
| 2157                  | Perry         | S 7              | 2048 NL 1800 EL     | NE       | William P. Hoover        | 1     | C. & M. Nethers    | 11-24           | Sal           | Frac          | --   | 20             | 2900   | Pool  | CT      |                 |
| 2158                  | Hanover       | L 14 (1Q)        | 3900 SL 5880 EL     |          | Raymond Penick           | 1     | Robert Francis     |                 |               |               |      |                |        | Pool  | CT      | Active          |

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township      | Land Division | Location              | Operator                 | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. MCFGPD | BOPD  | Total Depth  | Class. | Tools | Remarks         |
|-----------------------|---------------|---------------|-----------------------|--------------------------|----------|--------------------|------------|--------------|------------|----------------------|-------|--------------|--------|-------|-----------------|
| LICKING COUNTY (con.) |               |               |                       |                          |          |                    |            |              |            |                      |       |              |        |       |                 |
| 2159                  | Fallsbury     | S 11          | 329 SL 388 EL NE      | Waverly Oil Works        | 1        | H. R. Gault        | 12-2       | Sal          | Frac       | 500                  | 40    | 2937         | Pool   | CT    |                 |
| 2160                  | Franklin      | L 10 (3Q)     | 1996 NL 607 EL        | Lydle O. & G. Prod.      | 1        | C. W. Dispennette  | 12-11      | Sal          | Frac       | 1250                 | --    | 2805         | NWC    | CT    |                 |
| 2161                  | Madison       | L 10          | 7580 SL 11260 WL Twp. | Pennoco, Inc.            | 4        | R. W. Harris       | 12-13      | Sal          | Frac       | --                   | 40    | 2658         | Pool   | CT    |                 |
| 2162                  | Bowling Green | S 12          | 460 NL 866 EL NE      | Waverly Oil Works        | 1        | Paul Geiger        | 12-23      | Sal          | Frac       | --                   | 75    | 3053         | Pool   | CT    |                 |
| 2163                  | Etna          | S 6           | 940 SL 663 EL SE      | M & M Producing Co.      | 1        | Kuhninhof-Campbell |            |              |            |                      |       |              | FWC    | CT    | Active          |
| 2164                  | Fallsbury     | S 9           | 200 NL 1180 EL NE     | Dean Nethers             | 1        | V. M. Handley      |            |              |            |                      |       |              | Pool   | CT    | OW Abd.         |
| 2165                  | Fallsbury     | S 9           |                       | Dean Nethers             | --       | D. W. Little       |            |              |            |                      |       |              | Pool   | CT    | OW Abd. 3 wells |
| 2166                  | Fallsbury     | S 10          |                       | Dean Nethers             | --       | E. J. Fisk         |            |              |            |                      |       |              | Pool   | CT    | OW Abd. 3 wells |
| 2167                  | Fallsbury     | S 12          | 1035 SL 475 WL SE     | Lincoln Oil Well Service | 1        | R. & E. Daniels    | 12-17      | Sal          | Frac       | --                   | 125   | 2960         | Pool   | CT    |                 |
| 2168                  | Perry         | S 14          | 218 NL 1638 EL NW     | M. Moran & D. Denman     | 15       | W. E. Teagarden    | 12-31      | Mbe          | Shot       | --                   | 2     | 700          | Pool   | CT    |                 |
| 2169                  | Fallsbury     | S 11          |                       | Waverly Oil Works        | 1        | L. & B. Moran      |            |              |            |                      |       |              | Pool   | CT    | Active          |
| 2170                  | Franklin      | S 11          | 300 NL 1144 WL NW     | Terra Oil Co.            | 1        | F. M. Stevens      |            |              |            |                      |       |              | Pool   | RT    | Active          |
| 2171                  | Perry         | S 7           | 1462 SL 210 WL SE     | W. P. Hoover             | 1        | R. & L. Haynes     |            |              |            |                      |       |              | Pool   | CT    | Active          |
| 2172                  | Perry         | S 2           | 993 SL 2318 EL SE     | Carl E. Smith            | 1-A      | B. & J. Stevens    |            |              |            |                      |       |              | Pool   | CT    | Active          |
| 2173                  | Perry         | S 8           | 330 SL 330 EL SW      | Fred F. Cannon           | 3        | J. & C. Hornby     | 12-30      | Sal          | Frac       | --                   | 70    | 2960         | Pool   | CT    |                 |
| 2174                  | Perry         | L 31          | 475 NL 1350 WL        | Natol Pet. Corp.         | 2        | J. W. Nethers      |            |              |            |                      |       |              | Pool   | CT    | Active          |
| 2175                  | Fallsbury     | S 6           | 771 NL 230 WL NW      | Chief Dig., Inc.         | 1        | J. & H. Kidd       |            |              |            |                      |       |              | Pool   | CT    | Active          |
| SUMMARY               |               |               | GAS-3 OIL-38          | COMBINATION-33           |          | DRY-15 TOTAL-89    |            |              |            | 14,015               | 3,424 | 252,382 FEET |        |       |                 |
| OLD WELLS WORKED OVER |               |               |                       |                          |          |                    |            |              |            |                      |       |              |        |       |                 |
| 387                   | Perry         | S 4           | 265 SL 408 EL SW      | E. H. Everett            | 1        | I. W. Wills        | 1940       | Sal          | Nat?       | 40                   | --    | 2905         | Pool   | CT    |                 |
| 1131                  | Fallsbury     | S 19          | 1674 SL 432 EL NW     | G. Allen Willey          | 1        | W. & M. Wills      | 8-?        | Sal          | Frac       | --                   | --    | 2906         |        |       | Oil 2 BPD       |
|                       |               |               |                       | Mutual O. & G. Co.       | 1        | W. E. McDonald     | 1954       | Nat          | Nat        | --                   | ?     | 3104         | Pool   | CT    |                 |
|                       |               |               |                       | Lincoln Oil Well Service | 1        | W. E. McDonald     | 7-10       | Sal          | Frac       | --                   | 40    | 3104         |        |       |                 |
| SUMMARY               |               |               | WORKED OVER-2         |                          |          |                    |            |              |            | 0                    | 40    | 0 FEET       |        |       |                 |
| OLD WELLS ABANDONED   |               |               |                       |                          |          |                    |            |              |            |                      |       |              |        |       |                 |
| 301                   | Mary Ann      | S 25          | 1100 SL 1350 EL       | Ohio Fuel Gas Co.        | 1        | D. A. Benner       | 1939       | Sal          | Nat?       | 6930                 | --    | 2617         | Pool   | CT    | Abd. 4-17       |
| 308                   | Mary Ann      | S 25          | 660 NL 1340 EL        | Ohio Fuel Gas Co.        | 2        | D. A. Benner       | 1939       | Sal          | Nat?       | 3460                 | --    | 2584         | Pool   | CT    | Abd. 4-21       |
| 426                   | Mary Ann      | S 15          | 1280 NL 1900 EL       | Ohio Fuel Gas Co.        | 1        | Roy Neabitt        | 1940       | Sal          | Nat?       | 3500                 | --    | 2618         | Pool   | CT    | Abd. 4-1        |
| 481                   | Mary Ann      | S 16          |                       | Ohio Fuel Gas Co.        | 1        | F. Wilkins         | 1940       | Sal          | ?          | ?                    | --    | 2559         | Pool   | CT    | Abd. 6-12       |
| 525                   | Madison       | L 9 (2Q)      | 625 SL 625 EL         | Ohio Fuel Gas Co.        | 1        | H. L. Chatterton   | 1941       | Sal          | ?          | ?                    | --    | 2604         | Pool   | CT    | Abd. 2-24       |
| 531                   | Madison       | L 10 (2Q)     | 2300 SL 1550 WL       | Ohio Fuel Gas Co.        | 4        | Park Holmes        | 1941       | Sal          | Nat?       | 1591                 | --    | 2541         | Pool   | CT    | Abd. 10-6       |
| 566                   | Mary Ann      | S 6           | 7350 NL 3350 WL Twp.  | Ohio Fuel Gas Co.        | 1        | John Maharg        | 1942       | Sal          | ?          | 590                  | --    | 2661         | Pool   | CT    | Abd. 7-3        |
| 722                   | Newark        | L 4           | 2100 NL 6660 WL Twp.  | Ohio Fuel Gas Co.        | 1        | G. L. Jones        | 1947       | ?            | ?          | ?                    | --    | 1335         | Pool   | CT    | Abd. 3-16       |
| 821                   | Hopewell      | L 23 (3Q)     | 300 SL 1200 WL        | Waverly Oil Works        | 2        | Estella Gachas     | 1950       | Sal          | ?          | --                   | ?     | 3110         | Pool   | CT    | Abd. 12-19      |
| 825                   | Hopewell      | L 23 (3Q)     |                       | Waverly Oil Works        | 3        | Estella Gachas     | 1951       | Sal          | ?          | ?                    | ?     | 3113         | Pool   | CT    | Abd. 6-12       |
| 839                   | Bowling Green | S 4-5-E       |                       | John Altier, Sr.         | 4        | B. L. Properrider  | ?          | Sal          | ?          | ?                    | ?     | ?            | Pool   | CT    | Abd. 9-18       |
| 1014                  | Hanover       | L 2 (1Q)      | 350 NL 1030 WL        | Pure Oil Co.             | 2        | S. M. Romine "A"   | 1953       | Sal          | Frac       | 103                  | 302   | 2972         | Pool   | CT    | Abd. 11-2       |
| 1020                  | Hanover       | L 2 (1Q)      | 830 NL 330 WL         | Pure Oil Co.             | 3        | S. M. Romine "A"   | 1953       | Sal          | Frac       | 5                    | 150   | 2954         | Pool   | CT    | Abd. 11-6       |
| 1032                  | Hanover       | L 3 (1Q)      | 1280 NL 350 EL        | Union Oil Co. (Pure)     | 1        | S. M. Romine "A"   | 1953       | Sal          | Frac       | 30                   | 59    | 2953         | Pool   | CT    | Abd. 4-14       |
| 1034                  | Franklin      | L 5 (3Q)      | 4130 NL 190 WL        | Hill & Son (W. Holbin)   | 3        | J. & N. Schaller   | 1953       | Mbe          | Shot       | 169                  | ?     | 737          | Pool   | CT    | Abd. 6-3        |

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township      | Land Division | Location                      | Operator          | Well No.          | Lease                | Date Comp.         | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks    |            |
|-----------------------|---------------|---------------|-------------------------------|-------------------|-------------------|----------------------|--------------------|--------------|------------|---------------|------|-------------|--------|-------|------------|------------|
|                       |               |               |                               |                   |                   |                      |                    |              |            | MCFGPD        | BOPD |             |        |       |            |            |
| LICKING COUNTY (con.) |               |               |                               |                   |                   |                      |                    |              |            |               |      |             |        |       |            |            |
| 1049                  | Hanover       | L 3 (1Q)      | 350 NL 350 EL                 | NW                | 2                 | S. M. Romine "B"     | 1953               | Sal          | Frac       | 103           | 100  | 3079        | Pool   | CT    | Abd. 5-6   |            |
| 1086                  | Fallsbury     | S 20          | 260 SL 700 EL                 |                   | 1                 | Delly Houdley        | 1954               | Sal          | Frac       | --            | 10   | 2940        | Pool   | CT    | Abd. 4-9   |            |
| 1087                  | Hanover       | L 3 (1Q)      | 350 SL 400 EL                 |                   | 3                 | S. M. Romine "B"     | 1954               | Sal          | Frac       | 2             | 70   | 2933        | Pool   | CT    | Abd. 4-16  |            |
| 1181                  | Hopewell      | L 20 (3Q)     | 330 NL 990 EL                 |                   | 1                 | W. S. Wiseman        | 1955               | Sal          | Frac       | --            | 68   | 3235        | Pool   | CT    | Abd. 11-25 |            |
| 1205                  | Hopewell      | L 9           | 330 SL 400 EL                 |                   | 1                 | G. Dille             | 1955               | Sal          | Frac       | --            | 75   | 3193        | Pool   | CT    | Abd. 4-21  |            |
| 1210                  | Fallsbury     | S 20          | 400 SL 250 EL                 | NW                | 2                 | D. Hoadley           | 1955               | Sal          | Frac       | --            | 50   | 2911        | Pool   | CT    | Abd. 3-30  |            |
| 1224                  | Hopewell      | L 10          | 1200 SL 900 WL                |                   | 4                 | F. J. Caughenbaugh   | 1955               | Sal          | Frac       | --            | 87   | 3093        | Pool   | CT    | Abd. 10-5  |            |
| 1252                  | Perry         | S 4           | 420 SL 340 EL                 |                   | NE                | 3                    | K. R. Boyd         | 1955         | Sal        | Frac          | 297  | 30          | 2953   | Pool  | CT         | Abd. 3-5   |
| 1254                  | Hopewell      | L 9           | 330 SL 1200 EL                |                   |                   | 2                    | Gilbert Dille      | 1955         | Sal        | Frac          | 25   | 40          | 3193   | Pool  | CT         | Abd. 7-2   |
| 1283                  | Hopewell      | L 10          | 1330 SL 680 EL                |                   |                   | 5                    | F. J. Caughenbaugh | 1955         | Sal        | Frac          | --   | 78          | 3145   | Pool  | CT         | Abd. 10-12 |
| 1358                  | Hopewell      | S 18          | 1200 SL 330 WL                | NE                | 8                 | S. M. Gutridge       | 1956               | Sal          | Frac       | 75            | 12   | 3085        | Pool   | CT    | Abd. 1-1   |            |
| 1408                  | Hopewell      | S 3           | 330 NL 330 WL                 |                   | Farm              | 4                    | J. A. McCracken    | 1956         | Sal        | Frac          | 60   | 17          | 3014   | Pool  | CT         | Abd. 10-29 |
| 1443                  | Hopewell      | S 20          | 330 SL 350 WL                 |                   |                   | 3                    | H. M. Dodson       | 1956         | Sal        | Frac          | 400  | 200         | 3232   | Pool  | CT         | Abd. 1-29  |
| 1444                  | Madison       | L 3 (4Q)      | 550 NL 330 EL                 |                   | Farm              | 1                    | Clyde Anderson     | 1956         | Sal        | Frac          | 91   | 40          | 2625   | Pool  | CT         | Abd. 8-20  |
| 1482                  | Hopewell      | S 21          | 300 SL 300 EL                 |                   |                   | 2                    | A. O. Donnell      | 1957         | Sal        | Frac          | 100  | 400         | 3169   | Pool  | CT         | Abd. 4-6   |
| 1611                  | Fallsbury     | S 10          | 1345 SL 475 WL                | SE                | 1                 | M. & E. McKee        | 1958               | Sal          | Frac       | --            | 30   | 3025        | Pool   | CT    | Abd. 6-2   |            |
| 1630                  | Hopewell      | S 2           | 350 NL 899 WL                 | NE                | 1                 | Bernard Myers        | 1958               | Sal          | Frac       | 73            | 45   | 2983        | Pool   | CT    | Abd. 1-24  |            |
| 1662                  | Fallsbury     | S 10          | 225 SL 980 EL                 | SW                | 3                 | T. S. Macan          | 1958               | Sal          | Frac       | 30            | 160  | 3024        | Pool   | CT    | Abd. 7-21  |            |
| 1686                  | Fallsbury     | S 11          | 350 NL 140 WL                 | NW                | 1                 | F. W. Meiser         | 1958               | Sal          | Frac       | 300           | 98   | 3040        | Pool   | CT    | Abd. 3-9   |            |
| 1688                  | Fallsbury     | S 10          | 334 SL 770 WL                 | SW                | 1                 | Martin-Crowther      | 1958               | Sal          | Frac       | 8             | 30   | 3040        | Pool   | CT    | Abd. 5-20  |            |
| 1690                  | Hopewell      | S 11          | 1320 SL 330 EL                | SE                | 5                 | C. W. Fisher         | 1958               | Sal          | Frac       | --            | 150  | 3332        | Pool   | CT    | Abd. 11-13 |            |
| 1695                  | Hanover       | L 15 (4Q)     | 400 NL 900 EL                 | NW                | 1-A               | E. B. Francis        | 1958               | Sal          | Frac       | 50            | 10   | 2874        | Pool   | CT    | Abd. 8-19  |            |
| 1696                  | Hopewell      | L 20          | 400 NL 330 EL                 |                   | 2                 | N. E. Wiseman        | 1958               | Sal          | Frac       | 15            | 25   | 3217        | Pool   | CT    | Abd. 12-14 |            |
| 1737                  | Fallsbury     | S 10          | 670 NL 910 WL                 |                   | SE                | 1                    | M. Ashcraft        | 1959         | Sal        | Frac          | 500  | 30          | 3104   | Pool  | CT         | Abd. 6-26  |
| 1928                  | Mary Ann      | L 11 (4Q)     | 650 SL 500 EL                 |                   | Hickman & Donaker | 1                    | George Long Heirs  | ?            | Mbe        | ?             | ?    | ?           | 835    | Pool  | CT         | Abd. 8-25  |
| 1937                  | Fallsbury     | S 2           | 450 SL 1950 EL                |                   | SE                | 1                    | J. D. Morningstar  | 1962         | Sal        | Frac          | 558  | 10          | 3034   | Pool  | CT         | Abd. 7-10  |
| 1950                  | Fallsbury     | S 10          | 1150 NL 1100 WL               | SW                | 1                 | C. J. Martin         | 1962               | Sal          | Frac       | 100           | 25   | 3047        | Pool   | CT    | Abd. 2-28  |            |
| 1958                  | Fallsbury     | S 2           | 450 NL 500 EL                 | SE                | 2                 | J. D. Morningstar    | 1962               | Sal          | Frac       | 150           | 50   | 3187        | Pool   | CT    | Abd. 11-11 |            |
| 1960                  | Mary Ann      | L 11 (4Q)     | 940 SL 795 EL                 | Hickman & Donaker | 3-A               | George Long Heirs    | 1962               | Mbe          | Frac       | --            | 2    | 800         | Pool   | CT    | Abd. 8-27  |            |
| 2014                  | Madison       | (3Q)          |                               |                   | 3                 | W. H. Harris         | 1963               | Sal          | ?          | --            | ?    | 2629        | Pool   | CT    | Abd. 11-25 |            |
| 2017                  | Perry         | S 23          | 1000 SL 1300 EL               | SE                | 1                 | P. Sommerville       | 1963               | Sal          | Frac       | --            | 20   | 2951        | Pool   | CT    | Abd. 4-30  |            |
| 2068                  | Bowling Green | S 16          | 750 NL 950 WL                 | SE                | 1                 | Johnson(Cooperrider) | 1929               | Sal          | ?          | 190           | --   | 2902        | Pool   | CT    | Abd. 1-3   |            |
| 2076                  | Granville     | L 9           |                               |                   | 2                 | D. R. Owens          | 1908               | Sal          | ?          | --            | ?    | 2285        | Pool   | CT    | Abd. 3-18  |            |
| 2080                  | Burlington    | L 17 (4Q)     | 2100 SL 4000 EL               |                   | 2                 | Warner(McNamara)     | 1909               | Sal          | Nat        | 1200          | --   | 2447        | Pool   | CT    | Abd. 3-23  |            |
| 2081                  | Eden          | S 25          | 1980 SL 760 WL                |                   | 1                 | Berger(Neighbarger)  | 1922               | Snb?         | Nat        | ?             | --   | 2221        | Pool   | CT    | Abd. 5-7   |            |
| 2082                  | Newark        | (1Q)          | 5700 NL 1020 EL               |                   | Twp.              | 1                    | Harold Macklin     | 1963         | Sal        | ?             | --   | ?           | 1978   | Pool  | CT         | Abd. 2-?   |
| 2083                  | Washington    | L 11 (4Q)     | 55 NL 1632 WL                 | NW                | 2                 | Guy Hunt             | 1906               | Sal          | Nat        | ?             | --   | 2600        | Pool   | CT    | Abd. 5-29  |            |
| 2106                  | Granville     | L 6           | 370 SL 300 WL                 |                   | 3                 | Frank Phillips       | 1926               | Sal          | Nat?       | 50            | --   | 2341        | Pool   | CT    | Abd. 5-?   |            |
| 2111                  | Perry         | S 10          |                               |                   | 3                 | Frank Phillips       | 1926               | Sal          | ?          | ?             | ?    | 2925        | Pool   | CT    | Abd. 5-25  |            |
| 2114                  | Newark        | (1Q)          | 7380 NL 2750 EL               |                   | Ohio Fuel Gas Co. | 1                    | T. R. Edwards      | 1924         | Sal        | Shot          | 200  | --          | 2638   | Pool  | CT         | Abd. 8-10  |
| 2115                  | Granville     | L 3 (2Q)      | 500 SL 2900 EL                |                   | Ohio Fuel Gas Co. | 1                    | Moses Goodrich     | 1903         | Sal        | Nat?          | 1055 | --          | 2260   | Pool  | CT         | Abd. 7-17  |
| 2117                  | Perry         | S 3           | 940 NL 2400 WL                | NW                | 1                 | Arthur Evans         | 1925?              | Sal          | ?          | --            | ?    | 2890        | Pool   | CT    | Abd. 8-6   |            |
| 2125                  | Newark        |               | 276 N Rte. 16 124 EL property |                   | 1                 | Roe Emerson          | 1925               | Mbe          | --         | ?             | --   | 487         | Pool   | CT    | Abd. 7-13  |            |

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township    | Land Division | Location          | Operator | Well No.              | Lease | Date Comp.       | Deepest Unit | Type Comp. | Initial Prod. |       | Total Depth | Class. | Tools | Remarks    |                     |
|-----------------------|-------------|---------------|-------------------|----------|-----------------------|-------|------------------|--------------|------------|---------------|-------|-------------|--------|-------|------------|---------------------|
|                       |             |               |                   |          |                       |       |                  |              |            | MCFGPD        | BOPD  |             |        |       |            |                     |
| LICKING COUNTY (con.) |             |               |                   |          |                       |       |                  |              |            |               |       |             |        |       |            |                     |
| 2140-3                | Mary Ann    | L 11 (4Q)     | 1350 SL 812 EL    | NE       | Hickman & Donaker     | 3     | George Long      | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2140-4                | Mary Ann    | L 11 (4Q)     | 785 SL 440 EL     | NE       | Hickman & Donaker     | 4     | George Long      | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2140-5                | Mary Ann    | L 11 (4Q)     | 1400 SL 478 EL    | NE       | Hickman & Donaker     | 5     | George Long      | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2164                  | Fallsbury   | S 9           | 200 NL 1180 EL    | NE       | Dean Nethers          | 1     | V. M. Handley    | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2165-1                | Fallsbury   | S 9           | 200 NL 200 EL     | NE       | Dean Nethers          | 1     | D. W. Little     | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2165-2                | Fallsbury   | S 9           | 625 NL 200 EL     | NE       | Dean Nethers          | 2     | D. W. Little     | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2165-3                | Fallsbury   | S 9           | 1165 NL 200 EL    | NE       | Dean Nethers          | 3     | D. W. Little     | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2166-1                | Fallsbury   | S 10          | 1275 SL 1100 WL   | NW       | Dean Nethers          | 1     | E. J. Fisk       | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2166-2                | Fallsbury   | S 10          | 975 SL 700 WL     | NW       | Dean Nethers          | 2     | E. J. Fisk       | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
| 2166-3                | Fallsbury   | S 10          | 375 SL 700 WL     | NW       | Dean Nethers          | 3     | E. J. Fisk       | ?            | ?          | ?             | ?     | ?           | Pool   | CT    | Abd. 11-27 |                     |
|                       |             | SUMMARY       | ABANDONED-68      |          |                       |       |                  |              |            |               |       |             |        |       |            |                     |
| LOGAN COUNTY          |             |               |                   |          |                       |       |                  |              |            |               |       |             |        |       |            |                     |
| 37                    | Stokes      | VMSL 12276    | 4300 NL 9950 EL   | Twp.     | H. & H. Oil Producers | 1     | J. & F. Walters  | 6-6          | €          | Shot?         | --    | --          | 1930   | FWC   | CT         | PB to Ot Gas 68 MCF |
| 38                    | Stokes      | VMSL 12276    | 4750 NL 7700 EL   | Twp.     | Elwood R. Vivirski    | 1     | E. A. Countryman | 8-25         | €          | Shot          | 100   | --          | 1892   | Pool  | CT         | PB to Ot            |
| 39                    | Monroe      | VMSL 6762     | 2350 NL 5920 WL   |          | U. M. Harrison        | 1     | Kenneth Cole     | 7-28         | €          | --            | --    | --          | 2865   | FWC   | CT         |                     |
| 40                    | Stokes      | VMSL 12276    | 5500 NL 2800 WL   |          | Donald R. Runyon      | 1     | Vivian Barnes    | 6-15         | Ot         | Shot          | 250   | --          | 1500   | Pool  | CT         |                     |
| 41                    | Stokes      | VMSL 12276    | 5980 NL 3750 EL   |          | Donald R. Runyon      | 1     | Anna Barnes      | 6-14         | Ot         | Shot          | 300   | --          | 1480   | Pool  | CT         |                     |
| 42                    | Rush Creek  | VMSL 9889     | 255 NL 432 WL     |          | Engineering Dlg. Co.  | 1     | Virgil Carson    |              |            |               |       |             | FWC    | CT    | Active     |                     |
| 43                    | Stokes      | S 22          | 1834 SL 430 EL    | SW       | Donald R. Runyon      | 1     | J. V. Leatherman | 7-30         | Ot         | Shot          | 410   | --          | 1480   | Pool  | CT         |                     |
| 44                    | Stokes      | S 22          | 1576 NL 1590 WL   | NW       | Donald R. Runyon      | 1     | H. N. Babcock    | 8-30         | Ot         | Shot          | 410   | --          | 1477   | Pool  | CT         |                     |
| 45                    | Perry       | VMSL 4210     | 750 NL 3600 WL    |          | B & H Investment Co.  | 1     | E. J. Robson     | 11-28        | €          | --            | --    | --          | 2905   | FWC   | CT         |                     |
| 46                    | Miami       | S 18          | 1504 SL 1520 WL   | SW       | Four-Way Oil Co.      | 1     | Lee Barthaver    |              |            |               |       |             | Pool   | CT    | Active     |                     |
| 47                    | Monroe      | VMSL 4957     | 1055 NL 12500 WL  | Twp.     | Charles J. Seibert    | 1     | M. E. Grimes     | 12-5         | €          | --            | --    | --          | 2068   | FWC   | CT         |                     |
| 48                    | Zane        | VMSL 3680     | 12700 NL 10775 EL | Twp.     | A. B. Pruitt          | 1     | Allen DeVault    | 10-18        | €          | --            | --    | --          | 2745   | FWC   | RT         |                     |
| 49                    | Rush Creek  | VMSL 9974     | 330 SL 330 WL     |          | M. Koger & R. Cook    | 1     | F. D. Carnes     | 9-30         | €          | --            | --    | --          | 2054   | FWC   | CT         |                     |
| 50                    | Lake        | VMSL 3322     | 2100 SL 400 WL    |          | Roas Prod. Co.        | 1     | D. W. Ward       | 9-20         | €ms        | --            | --    | --          | 3278   | FWC   | RT         |                     |
| 51                    | Stokes      | S 22          | 1598 SL 730 EL    | SE       | Donald R. Runyon      | 1     | G. E. Siebeneck  | 12-10        | Ot         | ?             | --    | --          | 1500   | Pool  | CT         | Gas 78 MCF          |
| 52                    | Stokes      | S 22          | 927 NL 510 WL     | NW       | Donald R. Runyon      | 1     | B. T. Fox        |              |            |               |       |             | Pool   | CT    | Active     |                     |
| 53                    | Bokes Creek | VMSL 9890     | 9030 SL 2040 WL   | Twp.     | William H. Krohn      | 1     | C. E. Abbey      | 9-29         | €          | --            | --    | --          | 2109   | FWC   | RT         |                     |
| 54                    | Stokes      | S 14          | 1580 NL 3620 WL   |          | Runyon Dlg. Co.       | 1     | P. K. Dawson     |              |            |               |       |             | Pool   | CT    | Active     |                     |
| 55                    | Bokes Creek | VMSL 7995     | 9200 SL 8560 EL   | Twp.     | Hadson Ohio Oil Co.   | 1     | W. Walton Assoc. | 12-11        | €          | --            | --    | --          | 2140   | FWC   | RT         |                     |
| 56                    | Stokes      | S 15          | 490 SL 390 EL     | SE       | Runyon Dlg. Co.       | 2     | G. E. Siebeneck  |              |            |               |       |             | Pool   | CT    | Active     |                     |
| 57                    | Stokes      | S 21          | 250 SL 1580 EL    | SE       | Runyon Dlg. Co.       | 1     | G. M. Dangler    |              |            |               |       |             | Pool   | CT    | Active     |                     |
| 58                    | Stokes      | S 15          | 963 SL 1586 EL    | SE       | Runyon Dlg. Co.       | 1     | A. M. Robb       |              |            |               |       |             | Pool   | CT    | Active     |                     |
| 59                    | Stokes      | VMSL 12276    | 2550 SL 4360 EL   | Twp.     | Runyon Dlg. Co.       | 1     | L. A. Seibeneck  |              |            |               |       |             | Pool   | CT    | Active     |                     |
| 60                    | Stokes      | S 14          | 1625 NL 230 WL    | NW       | Runyon Dlg. Co.       | 1     | J. W. Warneke    |              |            |               |       |             | Pool   | CT    | Active     |                     |
|                       |             | SUMMARY       | GAS-5* OIL-0      |          | COMBINATION-0         |       | DRY-10 TOTAL-15* |              |            |               | 1,470 | 0           | 31,421 | FEET  |            |                     |

## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township   | Land Division | Location             | Operator                  | Well No. | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks         |
|---------------------|------------|---------------|----------------------|---------------------------|----------|-----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-----------------|
|                     |            |               |                      |                           |          |                       |            |              |            | MCFGPD        | BOPD |             |        |       |                 |
| LORAIN COUNTY       |            |               |                      |                           |          |                       |            |              |            |               |      |             |        |       |                 |
| 835                 | Avon Lake  | S 18          | 7300 SL 2200 EL Twp. | Laura S. Horsfall         | 1        | Lake Road             |            |              |            |               |      |             | Pool   | CT    | Canceled        |
| 837                 | Brighton   | L 33          | 2030 SL 330 EL       | Pure Oil Co.              | 1        | Michael Fehlan        | 1-14       | €cr          | --         | --            | --   | 4404        | FWC    | RT    |                 |
| 838                 | Russia     | L 98          | 880 SL 316 EL        | Ohio Fuel Gas(Pittsfield) | 1        | Frank Krueger         |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 839                 | Lagrange   | L 1           | 494 NL 1398 EL       | Glenn D. Hottel           | 3        | W. W. Rockwood        | 5-20       | Sal          | Frac       | ?             | ?    | 2236        | Pool   | CT    |                 |
| 840                 | Grafton    | L 33          | 1150 NL 1320 WL      | Ohio Fuel Gas Co.         | 1        | DiVincenzo(Brunson)   |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 841                 | Grafton    | L 30          | 1460 NL 500 WL       | Ohio Fuel Gas Co.         | 1        | Peter Deimling        |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 842                 | Lagrange   | L 34          | 300 SL 350 WL        | Ohio Fuel Gas Co.         | 1        | D. R. Wise            |            |              |            |               |      |             | Pool   | CT    | Storage         |
| 843                 | Grafton    | L 12          | 660 NL 635 EL        | Ohio Fuel Gas Co.         | 2        | Muriel Moehle(Stock)  |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 844                 | Grafton    | L 31          | 1300 SL 625 WL       | Ohio Fuel Gas Co.         | 1        | Charles Goodman       |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 845                 | Carlisle   | S 22          | 1100 SL 800 EL SE    | Ohio Fuel Gas Co.         | 1        | Dinnebier(Armbruster) |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 846                 | Grafton    | L 67          | 1350 NL 485 WL       | Ohio Fuel Gas Co.         | 2        | Woodard(Schaeffer)    |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 847                 | Columbia   | L 73          | 1400 NL 330 EL       | Ohio Fuel Gas Co.         | 2        | T. M. Malik(Lebman)   |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 848                 | Grafton    | L 74          | 300 NL 300 EL        | Ohio Fuel Gas Co.         | 1        | D. L. Belden(Belden)  |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 849                 | Grafton    | L 34          | 680 NL 450 EL        | Ohio Fuel Gas Co.         | 1        | W. H. Klinect         |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 850                 | Grafton    | L 47          | 660 SL 1200 EL       | Ohio Fuel Gas Co.         | 1        | C. A. Schaeffer       |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 851                 | Carlisle   | S 23          | 2300 SL 1940 WL SW   | Ohio Fuel Gas Co.         | 1        | E. E. Rowlands        |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| 852                 | Sheffield  | --            | City Lots 4 & 22     | John G. Ruhlin            | --       | Lorain Metro. Housing |            |              |            |               |      |             | Pool   | CT    | OW Abd. 2 wells |
| 853                 | Wellington | L 44          | 660 SL 660 WL        | B. A. Floto & Assoc.      | 1        | E. & J. Moody         |            |              |            |               |      |             | FWC    | RT    | Abd. loc.       |
| 854                 | Brighton   | L 32          | 645 SL 545 WL        | Midland Exploration       | 1        | W. S. Gregg           |            |              |            |               |      |             | FWC    | CT    | Active          |
| 855                 | Avon Lake  | S 19          |                      | J. & E. Von Pischke       | 1        | E. K. Von Pischke     |            |              |            |               |      |             | Pool   | CT    | OW Abd.         |
| SUMMARY             |            |               | GAS-0 OIL-0          | COMBINATION-0             |          | DRY-2 TOTAL-2         |            |              |            | 0             | 0    | 6,640       | FEET   |       |                 |
| OLD WELLS ABANDONED |            |               |                      |                           |          |                       |            |              |            |               |      |             |        |       |                 |
| 19                  | Columbia   | L 61          | 1200 SL 1100 WL      | Ohio Fuel Gas Co.         | 1        | G. Harris(Columbia)   | 1934       | Sal          | Shot       | 414           | --   | 2714        | Pool   | CT    | Abd. 7-29       |
| 43                  | Ridgeville | L 6           | 2519 NL 217 WL       | Schneider & Wiles         | 2        | E. L. Mills           | 1935       | Sal          | ?          | ?             | --   | 2546        | Pool   | CT    | Abd. 3-23       |
| 68                  | Columbia   | L 34          | 1100 SL 1200 EL      | Ohio Fuel Gas Co.         | 1        | D. Steltner(G. Hance) | 1936       | Sal          | Shot       | 146           | --   | 2785        | Pool   | CT    | Abd. 7-23       |
| 101                 | Columbia   | L 63          | 500 NL 750 WL        | Ohio Fuel Gas Co.         | 1        | Wanda Jindra          | 1937       | Sal          | ?          | 590           | --   | 2737        | Pool   | CT    | Abd. 8-6        |
| 167                 | Columbia   | L 96          | 470 SL 1220 EL       | Ohio Fuel Gas Co.         | 1        | K. Rothei (H. Snell)  | 1943       | Sal          | ?          | 2500          | --   | 2612        | Pool   | CT    | Abd. 7-13       |
| 338                 | Carlisle   | S 25          | 1340 NL 440 WL NW    | Ohio Fuel Gas Co.         | 1        | W. F. Precktel        | 1945       | Sal          | Shot       | 325           | --   | 2481        | Pool   | CT    | Abd. 3-10       |
| 556                 | Ridgeville | L 25          | 900 NL 1370 WL       | Ohio Fuel Gas Co.         | 1        | G. H. Lang            | 1948       | Sal          | ?          | 430           | --   | 2580        | Pool   | CT    | Abd. 3-19       |
| 838                 | Russia     | L 98          | 880 SL 316 EL        | Ohio Fuel Gas(Pittsfield) | 1        | Frank Krueger         | 1914       | Sal?         | ?          | 1500          | --   | ?           | Pool   | CT    | Abd. 12-23      |
| 840                 | Grafton    | L 33          | 1150 NL 1320 WL      | Ohio Fuel Gas Co.         | 1        | DiVincenzo(Brunson)   | ?          | Sal          | ?          | ?             | --   | 2673        | Pool   | CT    | Abd. 7-17       |
| 841                 | Grafton    | L 30          | 1460 NL 500 WL       | Ohio Fuel Gas Co.         | 1        | Peter Deimling        | 1917       | Sal          | ?          | 1900          | --   | 2725        | Pool   | CT    | Abd. 6-11       |
| 843                 | Grafton    | L 12          | 660 NL 635 EL        | Ohio Fuel Gas Co.         | 2        | Muriel Moehle(Stock)  | 1928       | Sal          | ?          | 1118          | --   | 2710        | Pool   | CT    | Abd. 6-29       |
| 844                 | Grafton    | L 31          | 1300 SL 625 WL       | Ohio Fuel Gas Co.         | 1        | Charles Goodman       | 1916       | Sal          | ?          | 1770          | --   | 2744        | Pool   | CT    | Abd. 6-11       |
| 845                 | Carlisle   | S 22          | 1100 SL 800 EL SE    | Ohio Fuel Gas Co.         | 1        | Dinnebier(Armbruster) | 1932       | Sal          | ?          | 611           | --   | 2295        | Pool   | CT    | Abd. 5-?        |
| 846                 | Grafton    | L 67          | 1350 NL 485 WL       | Ohio Fuel Gas Co.         | 2        | Woodard(Schaeffer)    | 1924       | Sal          | Nat?       | 2067          | --   | 2660        | Pool   | CT    | Abd. 5-?        |
| 847                 | Grafton    | L 73          | 1400 NL 330 EL       | Ohio Fuel Gas Co.         | 2        | T. M. Malik(Lebman)   | 1931       | Sal          | Nat?       | 940           | --   | 2673        | Pool   | CT    | Abd. 7-17       |
| 848                 | Grafton    | L 74          | 300 NL 300 EL        | Ohio Fuel Gas Co.         | 1        | D. L. Belden          | 1924       | Sal          | Shot       | ?             | --   | 2710        | Pool   | CT    | Abd. 5-?        |
| 849                 | Grafton    | L 34          | 680 NL 450 EL        | Ohio Fuel Gas Co.         | 1        | W. H. Klinect         | 1919       | Sal          | Shot       | 414           | --   | 2740        | Pool   | CT    | Abd. 7-6        |
| 850                 | Grafton    | L 47          | 660 SL 1200 EL       | Ohio Fuel Gas Co.         | 1        | C. A. Schaeffer       | 1929       | Sal          | Shot       | 350           | --   | 2646        | Pool   | CT    | Abd. 7-?        |
| 851                 | Carlisle   | S 23          | 2300 SL 1940 WL SW   | Ohio Fuel Gas Co.         | 1        | E. E. Rowlands        | 1929       | Sal          | ?          | 168           | --   | 2376        | Pool   | CT    | Abd. 7-?        |
| 852-1               | Sheffield  | --            | City Lots 4 & 22     | John G. Ruhlin            | 1        | Lorain Metro. Housing | ?          | ?            | ?          | ?             | --   | 670         | Pool   | CT    | Abd. 6-29       |

LIST OF OPERATIONS DURING 1964

| Permit Number        | Township  | Land Division | Location  | Operator                        | Well No.               | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks    |
|----------------------|-----------|---------------|---|---------------------------------|------------------------|-----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|------------|
|                      |           |               |   |                                 |                        |                       |            |              |            | MCFGPD        | BOPD |             |        |       |            |
| LORAIN COUNTY (con.) |           |               |   |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
| 852-2                | Sheffield | --            | City Lots 4 & 22                                  | John G. Ruhlin                  | 2                      | Lorain Metro. Housing | ?          | ?            | ?          | ?             | --   | 650         | Pool   | CT    | Abd. 6-30  |
| 855                  | Avon Lake | S 19          | 81 N. of State Hwy. 2;<br>117 W of 32334 Lake Rd. | J. & E. Von Pischke             | 1                      | E. K. Von Pischke     | ?          | ?            | ?          | ?             | --   | 855         | Pool   | CT    | Abd. 12-16 |
|                      |           | SUMMARY       | ABANDONED-22                                      |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
| STORAGE              |           |               |   |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
|                      | Lagrange  |               |   |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
|                      |           | SUMMARY       | STORAGE-1   | Ohio Fuel Gas Co.               | "Clinton" Storage Area |                       |            |              |            |               |      |             |        |       |            |
|                      |           | SUMMARY       | STORAGE-1   | TOTAL FEET-2, 436               |                        |                       |            |              |            |               |      |             |        |       |            |
|                      |           |               |   |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
| MADISON COUNTY       |           |               |   |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
| 1                    | Range     | VMSL 4156     | 7420 NL 3440 EL                                   | A. T. Carr Dlg.                 | 1                      | R. & B. Dorn          | 8-22       | 4ms          | --         | --            | --   | 2244        | FWC    | CT    |            |
|                      |           | SUMMARY       | GAS-0 OIL-0                                       | COMBINATION-0                   |                        | DRY-1 TOTAL-1         |            |              |            | 0             | 0    | 2,244       | FEET   |       |            |
|                      |           |               |   |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
| MAHONING COUNTY      |           |               |   |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
| 205                  | Goshen    | S 1           | 575 NL 680 EL SE                                  | Walter Hively                   | 1                      | F. S. Mix, Sr.        | 5-30       | Mbe          | ?          | --            | --   | 535         | Pool   | CT    | Gas 18 MCF |
| 206                  | Canfield  | L 5           | 74 SL 343 WL                                      | Northeastern Dlg.               | 1                      | William Briel         |            |              |            |               |      |             | FWC    | CT    | Abd. loc.  |
| 207                  | Berlin    | L 33          | 135 NL 660 WL                                     | Midland Exploration             | 1                      | R. C. Helsel          | 5-14       | Sal          | --         | --            | --   | 5120        | Pool   | CT    |            |
| 208                  | Beaver    | S 17          | 1197 NL 2200 WL                                   | Ohio Fuel Gas (Nat. Gas W. Va.) | 3                      | S. E. Feicht          |            |              |            |               |      |             | Pool   | CT    | OW Abd.    |
| 209                  | Beaver    | S 17          | 232 NL 2200 EL                                    | Ohio Fuel Gas (Nat. Gas W. Va.) | 4                      | S. E. Feicht          |            |              |            |               |      |             | Pool   | CT    | OW Abd.    |
| 210                  | Beaver    | S 17          | 1900 NL 1522 WL NW                                | Ohio Fuel Gas Co.               | 2                      | L. P. Young (Wisler)  |            |              |            |               |      |             | Pool   | CT    | OW Abd.    |
| 211                  | Ellsworth | S 22          | 2381 SL 1989 WL SW                                | East Ohio Gas Co.               | 1                      | A. & M. Stiskal       | 7-25       | Sal          | Frac       | 711           | --   | 5152        | Pool   | RT    |            |
| 212                  | Smith     | S 4           | 660 SL 660 EL NE                                  | Kin-Ark Oil Co.                 | 1                      | William Brenner       | 9-12       | C            | --         | --            | --   | 8194        | FWC    | RT    |            |
| 213                  | Ellsworth | S 19          | 797 NL 1447 EL NE                                 | Belden & Blake & Co.            | 1                      | E. & M. Saybe         | 11-10      | Sal          | Frac       | 426           | --   | 5102        | Pool   | RT    |            |
| 214                  | Ellsworth | S 18          | 1387 NL 563 WL NW                                 | Belden & Blake & Co.            | 1                      | R. & D. Newell        | 12-5       | Sal          | Frac       | 638           | --   | 5125        | Pool   | RT    |            |
| 215                  | Ellsworth | S 22          | 2407 NL 772 EL NE                                 | Belden & Blake & Co.            | 1                      | D. & M. Campbell      | 12-16      | Sal          | Frac       | 476           | --   | 5075        | Pool   | RT    |            |
|                      |           | SUMMARY       | GAS-4 OIL-0                                       | COMBINATION-0                   |                        | DRY-3 TOTAL-7         |            |              |            | 2,251         | 0    | 34,302      | FEET   |       |            |
| OLD WELLS ABANDONED  |           |               |   |                                 |                        |                       |            |              |            |               |      |             |        |       |            |
| 208                  | Beaver    | S 17          | 1197 NL 2200 WL                                   | Ohio Fuel Gas (Nat. Gas W. Va.) | 3                      | S. E. Feicht          | 1924       | Mbe          | Shot       | 40            | --   | 622         | Pool   | CT    | Abd. 6-11  |
| 209                  | Beaver    | S 17          | 232 NL 2200 EL                                    | Ohio Fuel Gas (Nat. Gas W. Va.) | 4                      | S. E. Feicht          | 1924       | Mbe          | Shot       | 75            | --   | 629         | Pool   | CT    | Abd. 6-10  |
| 210                  | Beaver    | S 17          | 1900 NL 1522 WL NW                                | Ohio Fuel Gas Co.               | 2                      | L. P. Young (Wisler)  | 1924       | Mbe          | ?          | ?             | --   | 685         | Pool   | CT    | Abd. 6-15  |
|                      |           | SUMMARY       | ABANDONED-3                                       |                                 |                        |                       |            |              |            |               |      |             |        |       |            |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964



## LIST OF OPERATIONS DURING 1964

| Permit Number | Township      | Land Division | Location        | Operator | Well No.                   | Lease | Date Comp.          | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                      |
|---------------|---------------|---------------|-----------------|----------|----------------------------|-------|---------------------|--------------|------------|---------------|------|-------------|--------|-------|------------------------------|
|               |               |               |                 |          |                            |       |                     |              |            | MCFGPD        | BOPD |             |        |       |                              |
| MARION COUNTY |               |               |                 |          |                            |       |                     |              |            |               |      |             |        |       |                              |
| 24            | Richland      | S 11          | 990 SL 330 EL   | SE       | John Adams                 | 1     | H. & A. Kramer      | 1-17         | €cr        | --            | --   | 2949        | NWC    | CT    | Canceled                     |
| 25            | Big Island    | S 14          | 26 NL 180 EL    | NW       | D. & V. Harrold            | 1     | D. & V. Harrold     |              |            |               |      |             | FWC    | RT    |                              |
| 26            | Big Island    | S 14          | 66 NL 120 EL    | NW       | D. & V. Harrold            | 2     | D. & V. Harrold     |              |            |               |      |             | FWC    | RT    |                              |
| 27            | Big Island    | S 14          | 185 NL 96 EL    | NW       | D. & V. Harrold            | 3     | D. & V. Harrold     |              |            |               |      |             | FWC    | RT    |                              |
| 28            | Claridon      | S 11          | 448 NL 26 EL    | SE       | M & D Corp.; Dock Oil      | 1     | R. L. Brooks        | 2-27         | €cr        | --            | --   | 2950        | Out    | RT    |                              |
| 29            | Big Island    | S 14          | 1303 NL 300 EL  | NE       | General Gas Corp.          | 1     | Scott Wolley        | 4-23         | €cr        | --            | --   | 2251        | FWC    | CT    | Canceled<br>Replaced by P-45 |
| 30            | Pleasant      | S 16          | 1240 SL 100 WL  | SW       | D. & D. Almendinger        | 1     | D. & D. Almendinger |              |            |               |      |             | FWC    | CT    |                              |
| 31            | Richland      | S 23          | 720 NL 860 EL   | SE       | Robert Bishop              | 1     | E. & C. Ossing      |              |            |               |      |             | FWC    | CT    |                              |
| 32            | Waldo         | S 11          | 1800 NL 2410 WL |          | C. E. Ringler              | 1     | H. & M. Ruth        | 4-20         | €cr        | --            | --   | 2727        | FWC    | CT    |                              |
| 33            | Pleasant      | S 17          | 110 SL 317 EL   | SE       | Bernard F. Zink            | 1     | B. F. Zink          |              |            |               |      |             | FWC    | RT    | Canceled                     |
| 34            | Prospect      | S 33          | 159 SL 713 EL   | NW       | Robert V. Buckley          | 1     | R. V. Buckley       |              |            |               |      |             | FWC    | RT    | Canceled                     |
| 35            | Pleasant      | S 16          | 760 SL 145 WL   | SW       | R. & J. Whittington        | 1     | R. & J. Whittington |              |            |               |      |             | FWC    | RT    | Canceled                     |
| 36            | Claridon      | S 16          | 100 NL 100 EL   | NE       | Perry Fulk, Sr.            | 1     | W. B. Seckel        | 3-16         | €cr        | --            | --   | 3018        | Pool   | RT    |                              |
| 37            | Grand Prairie | S 28          | 348 NL 1187 WL  | NW       | Mitchell & Donalson        | 1     | W. & M. McKee       |              |            |               |      |             | FWC    | CT    | Canceled                     |
| 38            | Pleasant      | S 9           | 400 SL 100 EL   | NW       | M. & T. Millisor           | 1     | M. & T. Millisor    |              |            |               |      |             | FWC    | RT    | Canceled                     |
| 39            | Waldo         | L 2           | 7650 SL 6210 WL | Twp.     | D. & R. Rengert            | 1     | D. & R. Rengert     |              |            |               |      |             | FWC    | RT    | Canceled                     |
| 40            | Waldo         | L 6 (3Q)      | 730 NL 900 WL   |          | D. & R. Rengert            | 1     | D. & R. Rengert     |              |            |               |      |             | FWC    | RT    | Canceled                     |
| 41            | Richland      | S 22          | 990 SL 990 WL   | SE       | Robert Tatum               | 1     | Fred Yake           | 3-27         | €cr        | --            | --   | 2895        | FWC    | RT    |                              |
| 42            | Big Island    | S 24          | 350 NL 790 EL   | NW       | Roy L. Crawford            | 1     | H. J. Conway        | 3-31         | €cr        | --            | --   | 2452        | FWC    | RT    |                              |
| 43            | Pleasant      | S 23          | 390 NL 400 WL   | NE       | Ralph C. Wagner            | 1     | R. C. Wagner        |              |            |               |      |             | FWC    | CT    | Canceled                     |
| 44            | Richland      | S 25          | 261 SL 750 EL   | SE       | Jenkins Engineering        | 2     | R. Heimlich         | 4-1          | €cr        | --            | --   | 2872        | FWC    | CT    | Replaces P-21                |
| 45            | Richland      | S 23          | 752 NL 1745 WL  | SE       | Robert Bishop              | 1     | C. E. Ossing        | 6-3          | €cr        | --            | --   | 2862        | FWC    | CT    |                              |
| 46            | Waldo         | L 2 (1Q)      | 610 NL 1684 EL  |          | C. E. Ringler              | 1     | R. Denzer           | 6-16         | €cr        | --            | --   | 2700        | FWC    | CT    |                              |
| 47            | Richland      | S 16          | 1460 NL 610 EL  | SW       | William B. Hudson          | 1     | Glenn Lehner        | 6-1          | €cr        | --            | --   | 2718        | FWC    | RT    |                              |
| 48            | Richland      | S 30          | 330 NL 800 WL   | SW       | Barefield Oil Co.          | 1     | E. Klingel          | 5-30         | €cr        | --            | --   | 2697        | FWC    | RT    |                              |
| 49            | Claridon      | S 32          | 703 SL 425 WL   | NW       | Midland Dlg. Co.           | 1     | F. L. Gruber        | 6-15         | PC?        | --            | --   | 3452        | FWC    | RT    |                              |
| 50            | Pleasant      | S 19          | 581 NL 985 EL   | NE       | Bert C. Cheatham           | 1     | A. & M. Lust        | 5-29         | €cr        | --            | --   | 2387        | FWC    | RT    |                              |
| 51            | Pleasant      | S 17          | 1990 NL 2450 WL | NW       | Dock Oil Prod., Inc.       | 1     | R. C. Owens         | 7-11         | €cr        | Acid          | 1500 | 2350        | FWC    | RT    | PB to Ot Discovery           |
| 52            | Claridon      | S 8           | 1713 SL 960 WL  | SW       | Barron Oil Co.             | 1     | D. & D. Yeoman      | 6-10         | €cr        | --            | --   | 2736        | FWC    | RT    |                              |
| 53            | Big Island    | S 13          | 2450 NL 925 EL  | NE       | Tromwell Oil Co.           | 1     | W. & M. Iler        |              |            |               |      |             | FWC    | CT    | Abd. loc.                    |
| 54            | Green Camp    | VMSL 9967     | 3708 SL 382 WL  |          | Mrs. Delma Santoro         | 1     | R. & R. Aikin       | 6-24         | €cr        | --            | --   | 2172        | FWC    | CT    | Abd. loc.                    |
| 55            | Green Camp    | VMSL 10240    | 9850 SL 6850 EL | Twp.     | Mrs. Delma Santoro         | 2     | R. & R. Aikin       |              |            |               |      |             | FWC    | CT    |                              |
| 56            | Bowling Green | L 9980        | 8850 SL 330 WL  |          | Merrill Dlg. Co.           | 1     | D. E. Mattix        | 7-27         | €cr        | --            | --   | 1995        | FWC    | CT    |                              |
|               |               | G. Lewis Surv |                 |          |                            |       |                     |              |            |               |      |             |        |       |                              |
| 57            | Claridon      | S 23          | 1090 NL 60 EL   | SW       | Frank Adkins Dlg. Co.      | 1     | J. & M. Zimmerman   | 8-30         | €cr        | --            | --   | 2840        | FWC    | CT    |                              |
| 58            | Montgomery    | S 26          | 1227 NL 1230 EL | SW       | C. Everett & Harding Bros. | 1     | Carozza-Cancro      | 7-2          | €cr        | --            | --   | 2130        | FWC    | RT    |                              |
| 59            | Big Island    | S 11          | 230 SL 230 EL   | SE       | Frank O. Cox               | 1     | A. & G. Thacker     | 7-1          | €cr        | --            | --   | 2245        | FWC    | RT    |                              |
| 60            | Claridon      | S 8           | 446 SL 1988 WL  | SW       | Barron Oil Co.             | 1     | H. & O. Seiter      | 10-18        | €cr        | --            | --   | 2713        | NWC    | RT    |                              |
| 61            | Grand Prairie | S 24          | 230 NL 1980 EL  | SW       | Mitchell & Donalson        | 1     | M. G. Kennedy       | 8-31         | €cr        | --            | --   | 2565        | FWC    | CT    |                              |
| 62            | Grand         | S 25          | 690 SL 720 WL   | SE       | Meese Bros. Oil Co.        | 1     | J. & D. Sims        | 9-28         | €cr        | --            | --   | 2350        | FWC    | CT    |                              |
| 63            | Claridon      | S 11          | 430 NL 415 EL   | SE       | C. J. Rider                | 1     | Richard Brooks      | 7-30         | €cr        | --            | --   | 2865        | Out    | RT    |                              |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                   | Lease  | Date Comp.          | Deepest Unit | Type Comp. | Initial Prod. |       | Total Depth | Class.       | Tools | Remarks          |
|----------------------|---------------|---------------|-----------------|----------|----------------------------|--------|---------------------|--------------|------------|---------------|-------|-------------|--------------|-------|------------------|
|                      |               |               |                 |          |                            |        |                     |              |            | MCFGPD        | BOPD  |             |              |       |                  |
| MARION COUNTY (con.) |               |               |                 |          |                            |        |                     |              |            |               |       |             |              |       |                  |
| 64                   | Pleasant      | S 17          | 1200 NL 1900 EL | NE       | M & D Corp. ; Dock Oil     | 2      | R. C. Owens         | 7-25         | €cr        | --            | --    | 2370        | FWC          | CT    |                  |
| 65                   | Scott         | S 36          | 599 SL 540 EL   | SW       | Ideal Dlg. ; Comanche Oil  | 1      | M. W. Harrison      | 8-16         | €cr        | --            | --    | 2862        | FWC          | RT    |                  |
| 66                   | Claridon      | S 32          | 1126 SL 1079 WL | NW       | Midland Dlg. Co.           | 2      | F. L. Gruber        | 8-24         | €cr        | --            | --    | 2884        | FWC          | RT    |                  |
| 67                   | Richland      | S 3           | 242 SL 480 EL   | NW       | John Adams                 | 1      | W. & M. Jevan       | 8-27         | €cr        | --            | --    | 2903        | FWC          | RT    |                  |
| 68                   | Pleasant      | S 20          | 690 NL 230 EL   | SW       | Hydro-Carbons, Inc.        | 1      | C. F. Hoch          | 9-24         | €cr        | --            | --    | 2385        | FWC          | CT    |                  |
| 69                   | Grand Prairie | S 13          | 1090 SL 430 WL  | NW       | Mitchell & Donalson        | 1      | W. S. Mitchell      | 11-24        | €cr        | --            | --    | 2580        | FWC          | CT    |                  |
| 70                   | Claridon      | S 13          | 330 NL 230 EL   | SE       | Ashland O. & R. Co.        | 1      | Mildred Bayles      |              |            |               |       |             | FWC          | CT    | Replaced by P-77 |
| 71                   | Grand         | S 36          | 800 SL 230 EL   | SE       | Petrol Servicing Inc.      | 1      | B. S. Ferguson      | 11-5         | €cr        | --            | --    | 1933        | FWC          | CT    |                  |
| 72                   | Grand         | S 36          | 230 NL 230 EL   | SE       | Petrol Servicing Inc.      | 2      | B. S. Ferguson      |              |            |               |       |             | FWC          | CT    | Abd. loc.        |
| 73                   | Claridon      | S 14          | 230 NL 330 WL   | SE       | Petrol Servicing Inc.      | 14     | Peerless Lumber Co. |              |            |               |       |             | Pool         | CT    | Abd. loc.        |
| 74                   | Claridon      | S 34          | 878 SL 2060 EL  | SE       | John Adams                 | 1      | R. & D. Smith       | 9-6          | €cr        | --            | --    | 2952        | FWC          | CT    |                  |
| 75                   | Claridon      | S 29          | 432 SL 1050 WL  | SE       | Comanche Oil Co.           | 1      | W. J. Schwaderer    | 9-22         | €cr        | --            | --    | 2799        | FWC          | RT    |                  |
| 76                   | Montgomery    | S 27          | 1550 NL 230 WL  | SW       | Stadler & Mattix           | 1      | Marion Evans        | 10-3         | €cr        | --            | --    | 2055        | FWC          | CT    |                  |
| 77                   | Claridon      | S 13          | 1770 SL 230 EL  | SE       | W. L. Lichlyter            | 1      | T. Bayles           | 9-24         | €cr        | --            | --    | 2945        | FWC          | RT    | Replaces P-70    |
| 78                   | Bowling Green | VMSL 9980     | 8150 SL 990 WL  |          | Alpha-LaRue Co.            | 2      | D. E. Mattix        | 10-28        | €cr        | --            | --    | 1980        | FWC          | CT    |                  |
| 79                   | Claridon      | S 21          | 400 SL 1900 EL  | SE       | Kentucky Dlg. & Oper.      | 1      | R. & D. Beam        | 10-1         | €cr        | --            | --    | 2880        | FWC          | RT    |                  |
| 80                   | Grand         | S 21          | 1150 SL 1900 EL | SE       | Kentucky Dlg. & Oper.      | 1      | D. J. Fogle         | 10-17        | €cr        | --            | --    | 1949        | FWC          | CT    |                  |
| 81                   | Claridon      | S 26          | 330 SL 330 EL   | SE       | Texas Co.                  | 1      | R. L. Retterer      | 10-11        | €cr        | --            | --    | 2901        | FWC          | RT    |                  |
| 82                   | Prospect      | L 18 (4Q)     | 250 SL 588 WL   |          | G. M. Piggott, Jr.         | 1      | D. & V. Holt        | 10-28        | €cr        | --            | --    | 2465        | FWC          | RT    |                  |
| 83                   | Big Island    | S 33          | 330 NL 330 WL   | SE       | Ragsdale & Crain           | 1      | N. & M. Basel       | 11-17        | €cr        | --            | --    | 2333        | FWC          | CT    |                  |
| 84                   | Claridon      | S 9           | 875 NL 541 EL   | SE       | Franklin Adkins            | 1      | P. F. Showers       | 11-12        | €cr        | Acid          | --    | 2805        | Pool         | CT    |                  |
| 85                   | Montgomery    | S 7           | 330 SL 330 WL   | SW       | Stadler & Mattix           | 1      | L. & M. Parish      | 12-4         | €cr        | --            | --    | 2985        | FWC          | CT    |                  |
| 86                   | Pleasant      | S 21          | 990 SL 330 EL   | NE       | Morrow Pet. & A. J. Walker | 1      | J. & L. Eckley      | 11-23        | €cr        | --            | --    | 2502        | FWC          | CT    |                  |
| 87                   | Pleasant      | S 29          | 982 SL 330 EL   | SW       | Hadson Ohio Oil Co.        | 1      | J. & M. Cusick      | 11-18        | €cr        | --            | --    | 2462        | FWC          | RT    |                  |
| 88                   | Waldo         | S 20          | 230 SL 1410 WL  | NW       | Petro-Lewis, Ltd.          | 1      | V. & F. Wick        | 11-20        | €cr        | --            | --    | 2750        | FWC          | RT    |                  |
| 89                   | Richland      | S 22          | 1106 SL 528 WL  | SW       | Cities Service Oil Co.     | 1      | D. Yake             |              |            |               |       |             | FWC          | RT    | Active           |
| 90                   | Claridon      | S 12          | 415 SL 236 EL   | NE       | Harry A. Holtom            | 1      | W. P. Moloney       |              |            |               |       |             | NWC          | CT    | Active           |
| 91                   | Tully         | S 35          | 539 SL 180 EL   | SE       | Calvert Eastern Dlg.       | 1      | E. Cox              |              |            |               |       |             | FWC          | RT    | Active           |
|                      |               | SUMMARY       | GAS-1*          | OIL-0    | COMBINATION-0              | DRY-46 | TOTAL-47            |              |            |               | 1,500 | 0           | 122,571 FEET |       |                  |
| MEDINA COUNTY        |               |               |                 |          |                            |        |                     |              |            |               |       |             |              |       |                  |
| 1442                 | Harrisville   | L 7           | 1225 NL 1650 WL |          | G. B. Frantz               | 5      | Gene Whitman        | 1963         | Mbe        | --            | --    | 457         | Pool         | RT    |                  |
| 1445                 | Westfield     | L 45          | 1080 NL 382 EL  |          | King Dlg. Co.              | 1      | L. & J. Terrill     | 1-11         | Sal        | --            | --    | 3263        | Pool         | CT    |                  |
| 1446                 | Guilford      | L 4           | 1800 NL 1980 WL |          | C. R. Obermiller           | 1-A    | Lillian Rupp        | 1-25         | Sal        | Frac          | --    | 20          | 3558         | Pool  | CT               |
| 1447                 | Harrisville   | L 97          | 450 NL 850 EL   |          | King Dlg. Co.              | 4      | Hall Growers, Inc.  | 1-25         | Sal        | Frac          | 2860  | --          | 2874         | Pool  | CT               |
| 1448                 | Sharon        | L 21          | 350 NL 1218 WL  |          | W. H. Patten Dlg.          | 1      | Mary Waters         | 4-18         | Sal        | Frac          | --    | 20          | 3612         | Pool  | CT               |
| 1449                 | Lafayette     | L 28          | 530 NL 2810 WL  |          | Ohio Fuel Gas Co.          | 1      | C. M. Jones         |              |            |               |       |             | Pool         | CT    | OW Abd.          |
| 1450                 | Westfield     | L 44          | 1650 NL 135 EL  |          | King Dlg. Co.              | 1      | John Kowal          | 2-21         | Sal        | Frac          | 260   | 20          | 3299         | Pool  | CT               |
| 1451                 | Harrisville   | L 156         | 325 SL 1300 EL  |          | Ohio Fuel Gas Co.          | 1      | John Baker          |              |            |               |       |             | Pool         | CT    | OW Abd.          |
| 1452                 | Hinckley      | L 25          | 1030 SL 660 WL  |          | Ohio Fuel Gas Co.          | 1      | L. G. Collister     |              |            |               |       |             | Pool         | CT    | OW Abd.          |
| 1453                 | Liverpool     | S 3           | 2340 SL 2450 WL |          | Ohio Fuel Gas Co.          | 1      | Hopkins(Sczanowicz) |              |            |               |       |             | Pool         | CT    | OW Abd.          |

## LIST OF OPERATIONS DURING 1964

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|----------------------|-----------------|---------------|-----------------|------|-----------------------|----------|-------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|----------------------|
|                      |                 |               |                 |      |                       |          |                         |            |              |            | MCFGPD        | BOPD |             |        |       |                      |
| MEDINA COUNTY (con.) |                 |               |                 |      |                       |          |                         |            |              |            |               |      |             |        |       |                      |
| 1454                 | Liverpool       | S 9           | 520 SL 1200 EL  | SE   | Ohio Fuel Gas Co.     | 2        | Paul Kmet               |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1455                 | Liverpool       | S 19          | 850 SL 1560 WL  | NW   | Ohio Fuel Gas Co.     | 1        | G. A. Scheafer(Echle)   |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1456                 | Brunswick Hills | L 4           | 500 NL 500 EL   |      | Natol Pet. Corp.      | 1        | J. W. Porter            |            |              |            |               |      |             | Pool   | CT    | Canceled             |
| 1457                 | Guilford        | S 4           | 750 NL 550 EL   | NW   | C. R. Obermiller      | 1        | D. & F. Cahoon          |            |              |            |               |      |             | Pool   | CT    | Canceled             |
| 1458                 | Guilford        | S 4           | 600 NL 695 WL   | NE   | C. R. Obermiller      | 1        | C. & M. Belle           | 3-20       | Sal          | Frac       | 265           | --   | 3576        | Pool   | CT    |                      |
| 1459                 | Westfield       | L 33          | 1900 NL 407 EL  |      | King Dlg. Co.         | 4        | Duane Frazier           | 4-2        | Sal          | Frac       | 1000          | 300  | 3315        | Pool   | CT    |                      |
| 1460                 | Harrisville     | L 147         | 141 SL 540 EL   |      | Ohio Fuel Gas Co.     | 1        | A. Ramsier(A. Repp)     |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1461                 | Chatham         | S 18          | 800 SL 300 WL   |      | Ohio Fuel Gas Co.     | 7        | R. J. Fish(F. Ben)      |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1462                 | Liverpool       | S 6           | 697 NL 1200 EL  | NE   | Royalton G. & O. Co.  | 1        | J. & A. Millen          |            |              |            |               |      |             | Pool   | CT    | Canceled             |
| 1463                 | Brunswick Hills | L 9 Tr 1      | 385 NL 700 WL   |      | Royalton G. & O. Co.  | 2        | Royalton G. & O. Co.    |            |              |            |               |      |             | Pool   | CT    | Canceled             |
| 1464                 | Harrisville     | L 147         | 553 SL 1410 EL  |      | Ohio Fuel Gas Co.     | 2        | J. Miller (J. Lawton)   |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1465                 | Lafayette       | L 8           | 4900 SL 8600 WL | Twp. | Ohio Fuel Gas Co.     | 1        | E. Moore(J. Leggette)   |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1466                 | Lafayette       | L 32          | 690 SL 1420 EL  |      | Ohio Fuel Gas Co.     | 1        | Delna Marguette         |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1467                 | York            | L 3           | 181 NL 923 EL   |      | Ohio Fuel Gas Co.     | 2        | H. Spieth(Gunkelman)    |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1468                 | Montville       | L 21          | 50 NL 800 WL    |      | Ohio Fuel Gas Co.     | 1        | W. W. Kurfis            |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1469                 | Liverpool       | L 22          | 543 SL 300 EL   | NW   | Ohio Fuel Gas Co.     | 3        | A. Nilges(S. Dieterich) |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1470                 | Guilford        | S 4           | 818 NL 1050 WL  | NW   | C. R. Obermiller      | 1        | D. & F. Cahoon          |            |              |            |               |      |             | Pool   | CT    | Abd. loc.            |
| 1471                 | Guilford        | S 3           | 400 SL 70 EL    | SE   | C. R. Obermiller      | 1        | Roy Farnsworth          | 5-17       | Sal          | Frac       | 200           | 30   | 3511        | Pool   | CT    |                      |
| 1472                 | Westfield       | L 39          | 1420 NL 314 WL  |      | King Dlg. Co.         | 1        | G. & V. Hankinson       | 5-15       | Sal          | --         | --            | --   | 3366        | Pool   | CT    |                      |
| 1473                 | Guilford        | L 24          | 2090 SL 400 EL  |      | King Dlg. Co.         | 1        | J. & E. Eastlake        | 6-19       | Sal          | --         | --            | --   | 3481        | Pool   | CT    |                      |
| 1474                 | Harrisville     | L 117         | 70 NL 600 EL    |      | King Dlg. Co.         | 5        | Hall Growers, Inc.      | 7-2        | Sal          | Frac       | 3000          | --   | 2817        | Pool   | CT    |                      |
| 1475                 | Harrisville     | L 107         | 150 NL 450 EL   |      | King Dlg. Co.         | 6        | Hall Growers, Inc.      | 8-15       | Sal          | Frac       | 2360          | --   | 2864        | Pool   | CT    |                      |
| 1476                 | Sharon          | L 20          | 330 SL 856 EL   |      | W. H. Patten Dlg.     | 2        | J. Curtis               | 7-25       | Sal          | Frac       | --            | --   | 3612        | Pool   | CT    | Gas 40 MCF Oil 6 BPD |
| 1477                 | Westfield       | L 6           | 1800 NL 150 EL  |      | Ohio Fuel Gas Co.     | 1        | Arthur Mong             |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1478                 | Westfield       | L 7           | 820 NL 258 EL   |      | Ohio Fuel Gas Co.     | 1        | G. Hartzler(C. Steel)   |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1479                 | Westfield       | L 33          | 2382 NL 1155 EL |      | King Dlg. Co.         | 2        | Jack Bobier             | 7-30       | Sal          | Frac       | 1500          | 50   | 3300        | Pool   | CT    |                      |
| 1480                 | Guilford        | S 4           | 1537 NL 365 WL  | SE   | C. R. Obermiller      | 1        | Henry Winkler           | 7-23       | Sal          | Frac       | --            | 20   | 3550        | Pool   | CT    |                      |
| 1481                 | Sharon          | L 44          | 1130 NL 400 EL  |      | King Dlg. Co.         | 1        | E. W. Swartz            | 7-18       | Sal          | Frac       | 213           | 50   | 3598        | NWC    | CT    |                      |
| 1482                 | Westfield       | L 54          | 700 SL 2400 EL  |      | King Dlg. Co.         | 1        | E. & M. Reeves          |            |              |            |               |      |             | Pool   | CT    | Abd. loc.            |
| 1483                 | Liverpool       | S 19          | 300 NL 325 WL   | NW   | Ohio Fuel Gas Co.     | 1        | W. A. Mallert           |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1484                 | Liverpool       | L 3           | 500 NL 1140 WL  | SW   | Ohio Fuel Gas Co.     | 1        | Wilson Stoskopf         |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1485                 | Liverpool       | S 22          | 40 NL 300 EL    | NW   | Ohio Fuel Gas Co.     | 2        | Andrew Nilges           |            |              |            |               |      |             | Pool   | CT    | OW Abd.              |
| 1486                 | Westfield       | L 53          | 400 NL 1700 EL  |      | King Dlg. Co.         | 2        | D. & D. Jarvis          | ?          | Sal          | Frac       | 318           | --   | 3315        | Pool   | CT    |                      |
| 1487                 | Westfield       | L 33          | 1722 NL 1155 EL |      | King Dlg. Co.         | 3        | Jack Bobier             | 9-4        | Sal          | Frac       | 2000          | 50   | 3281        | Pool   | CT    |                      |
| 1488                 | Sharon          | L 45          | 1482 NL 1403 WL |      | King Dlg. Co.         | 1        | T. W. Sullivan          | 9-8        | Sal          | Frac       | 250           | 50   | 3558        | Pool   | CT    |                      |
| 1489                 | Harrisville     | L 116         | 250 SL 2288 WL  |      | King Dlg. Co.         | 7        | Hall Growers, Inc.      |            |              |            |               |      |             | Pool   | CT    | OWDD                 |
| 1490                 | Harrisville     | L 126         | 1330 NL 1913 WL |      | King Dlg. Co.         | 8        | Hall Growers, Inc.      |            |              |            |               |      |             | Pool   | CT    | Active               |
| 1491                 | Montville       | L 106         | 960 SL 910 EL   |      | H. Nalley & R. Shafer | 1        | D. E. Higgins           | 8-27       | Mbe          | --         | --            | --   | 640         | Pool   | CT    |                      |
| 1492                 | Sharon          | L 45          | 108 SL 572 EL   |      | J. & J. Wells Co.     | 1        | Brightbill & Neff       | 10-3       | Sal          | Frac       | 100           | 45   | 3517        | Pool   | CT    |                      |
| 1493                 | Sharon          | L 45          | 500 NL 330 WL   |      | King Dlg. Co.         | 1        | C. & M. Ebert           | 10-13      | Sal          | Frac       | 200           | 66   | 3512        | Pool   | CT    |                      |
| 1494                 | Montville       | L 106         | 735 SL 1045 EL  |      | H. Nalley & R. Shafer | 2        | D. E. Higgins           | 10-5       | Mbe          | Shot       | --            | 3    | 629         | Pool   | CT    |                      |
| 1495                 | Sharon          | L 46          | 7765 SL 356 WL  |      | Buckeye Oil Prod. Co. | 1        | G. & E. Brandel         | 12-23      | Sal          | Frac       | 250           | 40   | 3525        | Pool   | CT    |                      |
| 1496                 | Sharon          | L 37          | 350 SL 798 EL   |      | King Dlg. Co.         | 2        | E. W. Swartz            | 11-23      | Sal          | Frac       | 200           | 40   | 3563        | Pool   | CT    |                      |
| 1497                 | Sharon          | L 20          | 975 NL 622 WL   |      | W. H. Patten Dlg.     | 1        | S. Schmelzer            |            |              |            |               |      |             | Pool   | CT    | Active               |
| 1498                 | Sharon          | L 15          | 2582 SL 330 WL  |      | King Dlg. Co.         | 1        | A. J. Andreoli          | 11-26      | Sal          | Frac       | --            | --   | 3700        | Pool   | CT    | Gas 67 MCF           |

LIST OF OPERATIONS DURING 1964

| Permit Number            | Township        | Land Division | Location         | Operator | Well No.                                   | Lease | Date Comp.              | Deepest Unit | Type Comp. | Initial Prod. |          | Total Depth | Class.      | Tools | Remarks |                  |
|--------------------------|-----------------|---------------|------------------|----------|--|-------|-------------------------|--------------|------------|---------------|----------|-------------|-------------|-------|---------|------------------|
|                          |                 |               |                  |          |  |       |                         |              |            | MCFGPD        | BOPD     |             |             |       |         |                  |
| MEDINA COUNTY (con.)     |                 |               |                  |          |  |       |                         |              |            |               |          |             |             |       |         |                  |
| 1499                     | Homer           | S 16          | 825 NL 365 WL    | SE       | Dymo Oil Corp.                             | 1     | C. Ripley               | 10-23        | Mbe        | --            | --       | 622         | SPWC        | RT    |         |                  |
| 1500                     | Sharon          | L 45          | 187 NL 1656 WL   |          | J. & J. Wells Co.                          | 1     | R. R. Daso              | 12-9         | Sal        | Frac          | --       | 90          | 3480        | Pool  | CT      | Gas 70 MCF       |
| 1501                     | Sharon          | L 45          | 158 SL 1756 EL   |          | J. & J. Wells Co.                          | 1     | Sharon Camp Mtg. Assoc. |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1502                     | Sharon          | L 45          | 1300 NL 536 WL   |          | King Dlg. Co.                              | 2     | C. & E. Ebert           |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1503                     | Sharon          | L 44          | 350 NL 400 EL    |          | King Dlg. Co.                              | 3     | E. W. Swartz            |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1504                     | Sharon          | L 45          | 762 NL 1403 WL   |          | King Dlg. Co.                              | 2     | T. W. Sullivan          |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1505                     | Brunswick Hills | L 2           | 785 SL 600 EL    |          | Royalton G. & O. Co.                       | 2     | R. A. Lockwood          | 12-1         | Sal        | Frac          | 615      | --          | 3126        | Pool  | CT      |                  |
| 1506                     | Sharon          | L 56          | 260 NL 306 WL    |          | King Dlg. Co.                              | 1     | T. T. Thompson          | 12-16        | Sal        | --            | --       | --          | 3630        | Pool  | CT      |                  |
| 1507                     | Westfield       | L 33          | 1020 NL 1350 WL  |          | King Dlg. Co.                              | 4     | Jack Bobier             |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1508                     | Westfield       | L 33          | 1720 NL 650 WL   |          | King Dlg. Co.                              | 5     | Jack Bobier             |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1509                     | Sharon          | L 25          | 827 NL 400 WL    |          | Maunus Oil Co.                             | 1     | R. Oenslager            | 12-14        | Sal        | Frac          | --       | 10          | 3637        | Out   | CT      | Gas 60 MCF       |
| 1510                     | Sharon          | L 33          | 628 NL 230 WL    |          | Clark Oil Co.                              | 1     | J. C. Bernhard          |              |            |               |          |             |             | Out   | CT      | Active           |
| 1511                     | Sharon          | L 43          | 1509 NL 964 EL   |          | Edward Wolny                               | 1     | E. & D. Wolny           |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1512                     | Sharon          | L 74          | 1280 NL 864 EL   |          | King Dlg. Co.                              | 1     | T. L. Stiles            |              |            |               |          |             |             | Out   | CT      | Active           |
| 1513                     | Sharon          | L 43          | 350 NL 350 EL    |          | King Dlg. Co.                              | 1     | Edward Wolny            |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1514                     | Chatham         | L 3           | 670 SL 545 WL    |          | Dymo Oil Corp                              | 36    | L. H. Wideman           |              |            |               |          |             |             | Pool  | CT      | Active           |
| 1515                     | Brunswick Hills | L 9           | 438 NL 496 WL    |          | Royalton G. & O. Co.                       | 2     | Royalton G. & O. Co.    |              |            |               |          |             |             | Pool  | CT      | Active           |
|                          |                 | SUMMARY       | GAS-6 OIL-6      |          | COMBINATION-11                             |       | DRY-9 TOTAL-32          |              |            |               | 15,591   | 904         | 97,788      | FEET  |         |                  |
| OLD WELLS DRILLED DEEPER |                 |               |                  |          |  |       |                         |              |            |               |          |             |             |       |         |                  |
| 235-36                   | Chatham         | L 3 (4Q)      | 670 SL 545 WL    |          | Dymo Oil Corp.                             | 36    | L. F. Wideman           | 1936         | Sal        | Shot          | --       | 5           | 3045        | Pool  | CT      | PB to Mbe        |
| 1489                     | Harrisville     | L 116         | 250 SL 2288 WL   |          | King Dlg. Co.                              | 7     | Hall Growers, Inc.      | 1936         | Sal        | --            | --       | --          | 3040        | Pool  | CT      | DD to C; Active  |
|                          |                 | SUMMARY       | DRILLED DEEPER-1 |          |  |       |                         | 10-15        | Obr        | --            | --       | --          | 4560        |       |         | New footage-1520 |
|                          |                 |               |                  |          |  |       |                         |              |            |               | 0        | 0           | 1,520       | FEET  |         |                  |
| OLD WELLS PLUGGED BACK   |                 |               |                  |          |  |       |                         |              |            |               |          |             |             |       |         |                  |
| 1210                     | Montville       | L 106         | 785 SL 930 EL    |          | Ohio Fuel Gas Co.<br>H. Nalley & R. Shafer | 1     | D. E. Higgins           | 1959<br>6-15 | Sal<br>Mbe | Frac<br>Shot  | 63<br>30 | --<br>3     | 3560<br>650 | Pool  | CT      |                  |
|                          |                 | SUMMARY       | PLUGGED BACK-1   |          |  |       |                         |              |            |               |          |             |             |       |         |                  |
| OLD WELLS ABANDONED      |                 |               |                  |          |  |       |                         |              |            |               |          |             |             |       |         |                  |
| 41                       | Lafayette       | L 21          | 660 NL 534 EL    |          | Ohio Fuel Gas Co.                          | 2     | H. Deeks(M. Spicer)     | 1934         | Sal        | ?             | 250      | --          | 3185        | Pool  | CT      | Abd. 6-8         |
| 380                      | Hinckley        | L 68          | 360 NL 600 EL    |          | Ohio Fuel Gas Co.                          | 1     | A. Abram(E. Kellogg)    | 1942         | Sal        | ?             | 640      | --          | 3455        | Pool  | CT      | Abd. 5-21        |
| 382                      | Hinckley        | L 69          | 360 SL 330 WL    |          | Ohio Fuel Gas Co.                          | 3     | F. Smith(Park Com.)     | 1942         | Sal        | ?             | ?        | --          | 3415        | Pool  | CT      | Abd. 4-15        |
| 433                      | Hinckley        | L 28          | 750 SL 1100 WL   |          | Wiser Oil Co.                              | 1     | Jennie Fay              | 1943         | Sal        | Shot?         | 789      | --          | 3475        | Pool  | CT      | Abd. 5-22        |
| 438                      | Hinckley        | L 28          | 500 NL 275 WL    |          | Wiser Oil Co.                              | 1     | McQuaid-Eastwood        | 1943         | Sal        | ?             | ?        | ?           | 3392        | Pool  | CT      | Abd. 6-3         |
| 456                      | Hinckley        | L 33          | 1000 NL 1100 WL  |          | Ohio Fuel Gas Co.                          | 1     | M. Bozett(Krispinski)   | 1943         | Sal        | ?             | 540      | --          | 3528        | Pool  | CT      | Abd. 5-22        |
| 829                      | Granger         | L 78          | 80 SL 360 WL     |          | Ohio Fuel Gas Co.                          | 1     | L. W. Wickline          | 1951         | Sal        | ?             | ?        | --          | 3572        | Pool  | CT      | Abd. 4-24        |
| 1066                     | Montville       | L 87          | 660 NL 1000 WL   |          | Ohio Fuel Gas Co.                          | 2     | T. C. G. Herwig         | 1956         | Sal        | ?             | 84       | --          | 3446        | Pool  | CT      | Abd. 7-2         |
| 1077                     | Hinckley        | L 5           | 434 NL 474 EL    |          | Ohio Fuel Gas Co.                          | 1     | A. B. Green             | 1956         | Sub        | Acid          | 438      | --          | 2815        | Pool  | CT      | Abd. 5-27        |
| 1107                     | Medina          | L 57          | 750 NL 750 EL    |          | Ohio Fuel Gas Co.                          | 1     | E. J. Wilson            | 1957         | Sal        | Frac          | 103      | --          | 3342        | Pool  | CT      | Abd. 7-17        |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township    | Land Division | Location        | Operator              | Well No. | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |     | Total Depth | Class. | Tools | Remarks    |
|----------------------|-------------|---------------|-----------------|-----------------------|----------|------------------------|------------|--------------|------------|---------------|-----|-------------|--------|-------|------------|
| MEDINA COUNTY (con.) |             |               |                 |                       |          |                        |            |              |            |               |     |             |        |       |            |
| 1118                 | Westfield   | L 30          | 700 NL 1100 EL  | Burton Enterprises    | 1        | Oscar Lyons            | 1957       | Sal          | Frac       | --            | 30  | 3134        | Pool   | CT    | Abd. 7-6   |
| 1132                 | Westfield   | L 29          | 500 SL 1140 EL  | Burton Enterprises    | 2        | Oscar Lyons            | 1958       | Sal          | Frac       | 150           | 100 | 3059        | Pool   | CT    | Abd. 7-14  |
| 1145                 | Wadsworth   | L 8           | 800 NL 47 EL    | Ohio Fuel Gas Co.     | 1        | Jones-Duty             | 1958       | Sal          | Frac       | 188           | --  | 3058        | Pool   | CT    | Abd. 6-24  |
| 1202                 | Lafayette   | L 1           | 500 NL 375 EL   | Ohio Fuel Gas Co.     | 2        | U. J. Hamey            | 1959       | Sal          | ?          | ?             | --  | 3086        | Pool   | CT    | Abd. 12-18 |
| 1220                 | Westfield   | L 41          | 950 SL 500 WL   | King Dig. Co.         | 1        | B. Mace                | 1959       | Sal          | Frac       | 133           | --  | 3223        | Pool   | CT    | Abd. 7-6   |
| 1254                 | Westfield   | L 13          | 800 SL 770 EL   | King Dig. Co.         | 1        | A. M. Hovaner          | 1960       | Sal          | Frac       | 619           | --  | 3283        | Pool   | CT    | Abd. 7-20  |
| 1274                 | Westfield   | L 14          | 1100 SL 550 WL  | C. Wilson (I. Porter) | 1        | Wills                  | 1960       | Sal          | Frac       | 579           | --  | 3164        | Pool   | CT    | Abd. 6-25  |
| 1449                 | Lafayette   | L 28          | 530 NL 2810 WL  | Ohio Fuel Gas Co.     | 1        | C. M. Jones            | 1929       | Sal          | Nat?       | 1332          | --  | 3131        | Pool   | CT    | Abd. 1-24  |
| 1451                 | Harrisville | L 156         | 325 SL 1300 EL  | Ohio Fuel Gas Co.     | 1        | John Baker             | 1923       | Sal          | Shot       | 1054          | --  | 2840        | Pool   | CT    | Abd. 2-29  |
| 1452                 | Hinckley    | L 25          | 1030 SL 660 WL  | Ohio Fuel Gas Co.     | 1        | L. G. Collister        | 1928       | Sal          | ?          | 661           | --  | 3285        | Pool   | CT    | Abd. 5-9   |
| 1453                 | Liverpool   | S 3           | 2340 SL 2450 WL | Ohio Fuel Gas Co.     | 1        | L. Hopkins(Sczanowicz) | 1925       | Sal          | Nat?       | 5999          | --  | 2711        | Pool   | CT    | Abd. 4-?   |
| 1454                 | Liverpool   | S 9           | 520 SL 1200 EL  | Ohio Fuel Gas Co.     | 2        | Paul Kmet              | 1921       | Sal          | ?          | 2826          | --  | 2805        | Pool   | CT    | Abd. 6-26  |
| 1455                 | Liverpool   | S 19          | 850 SL 1560 WL  | Ohio Fuel Gas Co.     | 1        | G. Scheafer(C. Echle)  | 1921       | Sal          | ?          | 3500          | --  | 2832        | Pool   | CT    | Abd. 6-2   |
| 1460                 | Harrisville | L 147         | 141 SL 540 EL   | Ohio Fuel Gas Co.     | 1        | A. Ramsier(A. Repp)    | 1918       | Sal          | ?          | 353           | --  | 2894        | Pool   | CT    | Abd. 3-?   |
| 1461                 | Chatham     | L 18          | 300 SL 300 WL   | Ohio Fuel Gas Co.     | 7        | R. Fish(Frank Ben)     | ?          | ?            | ?          | ?             | --  | ?           | Pool   | CT    | Abd. 3-?   |
| 1464                 | Harrisville | L 147         | 553 SL 1410 EL  | Ohio Fuel Gas Co.     | 2        | J. Miller(J. Lawton)   | 1922       | Sal          | Shot       | 221           | --  | 2899        | Pool   | CT    | Abd. 6-22  |
| 1465                 | Lafayette   | L 8           | 4900 SL 8600 WL | Ohio Fuel Gas Co.     | 1        | E. Moore(J. Leggett)   | 1927       | Sal          | Nat?       | 649           | --  | 3245        | Pool   | CT    | Abd. 5-?   |
| 1466                 | Lafayette   | L 32          | 460 SL 1420 EL  | Ohio Fuel Gas Co.     | 1        | Delna Marquette        | 1930       | Sal          | Shot       | 5800          | --  | 3100        | Pool   | CT    | Abd. 6-17  |
| 1467                 | York        | L 3           | 181 NL 923 EL   | Ohio Fuel Gas Co.     | 2        | H. Spieth(Gunkelman)   | 1923       | Sal          | Shot       | 2358          | --  | 3016        | Pool   | CT    | Abd. 7-13  |
| 1468                 | Montville   | L 21          | 50 NL 800 WL    | Ohio Fuel Gas Co.     | 1        | W. W. Kurfis           | 1928       | Sal          | Nat?       | 134           | --  | 2945        | Pool   | CT    | Abd. 5-?   |
| 1469                 | Liverpool   | S 22          | 543 SL 300 EL   | Ohio Fuel Gas Co.     | 3        | A. Nilges(Dieterich)   | 1922       | Sal          | Nat?       | 1489          | --  | 2866        | Pool   | CT    | Abd. 5-?   |
| 1477                 | Westfield   | L 6           | 1800 NL 150 EL  | Ohio Fuel Gas Co.     | 1        | Arthur Mong            | 1917       | Sal          | ?          | 1000          | --  | 2939        | Pool   | CT    | Abd. 6-26  |
| 1478                 | Westfield   | L 7           | 820 NL 258 EL   | Ohio Fuel Gas Co.     | 1        | G. L. Hartzler(Steel)  | 1916       | Sal          | ?          | 330           | --  | 3034        | Pool   | CT    | Abd. 6-?   |
| 1483                 | Liverpool   | S 19          | 300 NL 325 WL   | Ohio Fuel Gas Co.     | 1        | W. A. Mallert          | 1921       | Sal          | ?          | 550           | --  | 2830        | Pool   | CT    | Abd. 7-6   |
| 1484                 | Liverpool   | L 3           | 500 NL 1140 WL  | Ohio Fuel Gas Co.     | 1        | Wilson Stoskopf        | 1925       | Sal          | Nat?       | 1071          | --  | 2792        | Pool   | CT    | Abd. 7-?   |
| 1485                 | Liverpool   | S 22          | 40 NL 300 EL    | Ohio Fuel Gas Co.     | 2        | Andrew Nilges          | 1923       | Sal          | Nat?       | 178           | --  | 2897        | Pool   | CT    | Abd. 7-8   |
| SUMMARY              |             |               | ABANDONED-36    |                       |          |                        |            |              |            |               |     |             |        |       |            |
| WATERFLOOD           |             |               |                 |                       |          |                        |            |              |            |               |     |             |        |       |            |
| 1179-15              | Chatham     | L 2 Tr 16     | 630 NL 3110 EL  | Chatham Operating Co. | 31-W     | Brandt                 | 2-12       | Mbe          |            | --            | 20  | 489         |        |       |            |
|                      | Chatham     | L 10 Tr 15    | 193 SL 1753 EL  | Iseman Oil Co.        | W-1D     | A. Clapp               | 6-?        | Mbe          |            | --            | --  | 546         |        |       | Input      |
|                      | Chatham     | L 19          | 90 NL 220 EL    | Iseman Oil Co.        | 15       | E. & H. Pitz           | 4-?        | Mbe          | Shot       | --            | 1   | 622         |        |       |            |
|                      | Chatham     | L 2           | 596 NL 2968 EL  | Chatham Operating Co. | 1-W      | S. E. Packard          | 4-29       | Mbe          |            | --            | --  | 519         |        |       | Input      |
| SUMMARY              |             |               | WATERFLOOD-4    | TOTAL FEET-2, 176     |          |                        |            |              |            |               |     |             |        |       |            |
| MEIGS COUNTY         |             |               |                 |                       |          |                        |            |              |            |               |     |             |        |       |            |
| 1373                 | Rutland     | S 33          | 371 NL 1080 WL  | Ernest Wright         | 2        | Onie France            | 1-10       | Pmb          | Nat        | 188           | --  | 475         | Pool   | CT    |            |
| 1374                 | Lebanon     | S 8           | 1163 SL 2021 WL | Gayle Price           | 1        | Gayle Price            | 4-14       | Pcr          | Shot       | --            | 1   | 805         | Pool   | CT    |            |
| 1375                 | Salem       | S 20          | 200 SL 300 EL   | Ernest Wright         | 3        | Ernest Wright          | 4-14       | Pmb          | Nat        | 196           | --  | 740         | Pool   | CT    |            |
| 1376                 | Sutton      | S 31          | 1080 NL 1720 EL | C. H. Williams        | 1        | Milton Roush           | 7-8        | P            | --         | --            | --  | 881         | Pool   | CT    |            |
| 1377                 | Sutton      | L 246         | 240 SL 2125 EL  | Dennis Blauser        | 1        | Clark Jividen          | 7-22       | Pcr          | --         | --            | --  | 540         | Pool   | CT    |            |

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|---------------------|-----------|---------------|-----------------|-------|------------------------|----------|----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-------------------|
|                     |           |               |                 |       |                        |          |                      |            |              |            | MCFGPD        | BOPD |             |        |       |                   |
| MEIGS COUNTY (con.) |           |               |                 |       |                        |          |                      |            |              |            |               |      |             |        |       |                   |
| 1378                | Rutland   | S 34          | 449 SL 782 WL   | SW    | Wright & France        | 3        | Onie France          | 8-7        | Pmb          | Nat        | 272           | --   | 605         | Pool   | CT    | Discovery         |
| 1379                | Sutton    | L 1201        | 500 NL 2095 EL  |       | Roy Proffitt           | 1        | Otis Knopp           | 10-9       | Mbe          | --         | --            | --   | 2250        | Pool   | CT    |                   |
| 1380                | Olive     | S 17          | 1860 NL 2000 EL | NE    | Empire Devel. Corp.    | 1        | Harding Rood         | 10-14      | Mbe          | Shot       | 145           | --   | 1994        | FWC    | CT    |                   |
| 1381                | Sutton    | L 1218        | 709 NL 2046 EL  |       | Jim Gibson Oil Co.     | 1        | Delbert Smith        | 11-12      | Pcr          | --         | --            | --   | 715         | Pool   | CT    |                   |
| 1382                | Sutton    | L 1218        | 1320 NL 2030 EL |       | Jim Gibson Oil Co.     | 1        | Mildred Stearn       | 11-?       | Pcr          | --         | --            | --   | 710         | Pool   | CT    |                   |
| 1383                | Sutton    | L 1218        | 700 NL 850 EL   |       | Jim Gibson Oil Co.     | 1        | Earl Cross           |            |              |            |               |      |             | Pool   | CT    | Active Gas 20 MCF |
| 1384                | Salisbury | L 1225        | 220 NL 1235 EL  |       | Roy Proffitt           | 1        | F. W. Crow, Jr.      | 11-7       | Mbe          | Shot       | --            | 5    | 1574        | Pool   | CT    |                   |
| 1385                | Salem     | S 14          | 1683 NL 1188 WL | NW    | Ernest Wright          | 5        | O. & O. Roush        | 12-21      | Pmb          | --         | --            | --   | 705         | Pool   | CT    | Active            |
| 1386                | Olive     | S 17          | 796 NL 752 EL   | SW    | Empire Devel. Corp.    | 1        | Delmer Osburn        |            |              |            |               |      |             | Pool   | CT    |                   |
|                     |           | SUMMARY       | GAS-4           | OIL-2 | COMBINATION-0          |          | DRY-6 TOTAL-12       |            |              |            | 801           | 6    | 11,994      | FEET   |       |                   |
| OLD WELLS ABANDONED |           |               |                 |       |                        |          |                      |            |              |            |               |      |             |        |       |                   |
| 279-A-2             | Bedford   | S 26          | 600 SL 660 WL   | SW    | Ohio Fuel Gas Co.      | 2        | Leonard Epple        | 1921       | Pmb          | ?          | ?             | --   | 886         | Pool   | CT    | Abd. 8-14         |
| 340-A               | Bedford   | S 27          | 700 NL 704 EL   | SE    | Ohio Fuel Gas Co.      | 1        | A. J. Wingett        | 1931       | Mbe          | Shot       | 38            | --   | 1662        | Pool   | CT    | Abd. 8-18         |
| 471-A               | Salem     | S 24-S        | 2450 NL 860 WL  | NE    | L Heacock(H. Willford) | 2        | L Heacock(R. George) | 1935       | Pmb          | ?          | 25            | --   | 424         | Pool   | CT    | Abd. 10-8         |
| 476                 | Bedford   | S 30          | 640 NL 700 WL   | NE    | Ohio Fuel Gas Co.      | 1        | Earl Sapp            | 1943       | Mbe          | ?          | ?             | --   | 1647        | Pool   | CT    | Abd. 8-6          |
| 481                 | Bedford   | S 29          | 1300 SL 550 EL  | NE    | Ohio Fuel Gas Co.      | 1        | Dayton Tubbs         | 1943       | Mbe          | ?          | ?             | --   | 1533        | Pool   | CT    | Abd. 7-31         |
| 1046                | Olive     | L 1159        |                 |       | B. N. Putnam           | 1        | William Kibble       | 1953       | Mbe          | Frac       | 26            | --   | 1935        | Pool   | CT    | Abd. 5-23         |
| 1070                | Olive     | L 103         |                 |       | B. N. Putnam           | 1        | Mary Bise            | 1954       | Mbe          | Shot       | 446           | --   | 1932        | Pool   | CT    | Abd. 7-30         |
| 1282                | Chester   | S 2           | 775 SL 1776 EL  | SE    | Ohio Fuel Gas Co.      | 1        | Stout-Osborn         | 1959       | Mbe          | Shot       | 74            | --   | 1718        | Pool   | CT    | Abd. 7-16         |
| 1321                | Salem     | S 24-N        | 83 NL 251 WL    | SW    | H. M. Wilford & Son    | 1        | Ray George           | 1960       | Pmb          | ?          | 160           | --   | 684         | Pool   | CT    | Abd. 10-6         |
| 1322                | Bedford   | S 36          | 502 NL 370 EL   | NE    | Paramount Prod.        | 1        | Pearl Hayse          | 1962       | Mbe          | Frac       | --            | 25   | 1571        | Pool   | CT    | Abd. 6-27         |
| 1330                | Salem     | S 30-S        | 619 SL 289 EL   | NE    | H. M. Wilford & Son    | 2        | Ray George           | 1960       | Pmb          | ?          | 300           | --   | 702         | Pool   | CT    | Abd. 10-7         |
| 1371                | Bedford   | S 33          | 1330 NL 958 EL  |       | White Oak Gas Co.      | 1        | E. Smith             | 1963       | Pmb          | ?          | 206           | --   | 738         | Pool   | CT    | Abd. 5-8          |
|                     |           | SUMMARY       | ABANDONED-12    |       |                        |          |                      |            |              |            |               |      |             |        |       |                   |
| MERCER COUNTY       |           |               |                 |       |                        |          |                      |            |              |            |               |      |             |        |       |                   |
| 126                 | Dublin    | S 12          | 250 SL 150 WL   | NE    | Archer Pipe & Supply   | 1        | Paul Hayes           |            |              |            |               |      |             | Pool   | CT    | OW Abd. 6 wells   |
| 127                 | Dublin    | S 12          |                 |       | Archer Pipe & Supply   | --       | G. Matthews          |            |              |            |               |      |             | Pool   | CT    |                   |
| 128                 | Franklin  | S 35          | 230 SL 230 WL   | SW    | C. E. Skiles, Inc.     | 1        | H. & C. Hein         | 12-1       | €            | --         | --            | --   | 1750        | Pool   | CT    |                   |
| 129                 | Jefferson | S 1           | 252 SL 612 WL   | SW    | William A. Boase       | 1        | J. Zumberg           | 11-18      | €            | --         | --            | --   | 1770        | FWC    | CT    |                   |
|                     |           | SUMMARY       | GAS-0           | OIL-0 | COMBINATION-0          |          | DRY-2 TOTAL-2        |            |              |            | 0             | 0    | 3,520       | FEET   |       |                   |
| OLD WELLS ABANDONED |           |               |                 |       |                        |          |                      |            |              |            |               |      |             |        |       |                   |
| 126-1               | Dublin    | S 12          | 250 SL 150 WL   | NE    | Archer Pipe & Supply   | 1        | Paul Hayes           | ?          | Ot           | ?          | --            | ?    | 1235        | Pool   | CT    | Abd. 9-21         |
| 127-1               | Dublin    | S 12          | 250 NL 240 EL   | NE    | Archer Pipe & Supply   | 1        | G. Matthews          | ?          | Ot           | ?          | --            | ?    | 1190        | Pool   | CT    | Abd. 7-12         |
| 127-2               | Dublin    | S 12          | 250 NL 670 EL   | NE    | Archer Pipe & Supply   | 2        | G. Matthews          | ?          | Ot           | ?          | --            | ?    | 1235        | Pool   | CT    | Abd. 7-10         |
| 127-3               | Dublin    | S 12          | 750 NL 670 EL   | NE    | Archer Pipe & Supply   | 3        | G. Matthews          | ?          | Ot           | ?          | --            | ?    | 1245        | Pool   | CT    | Abd. 7-20         |
| 127-4               | Dublin    | S 12          | 1230 NL 1089 EL | NE    | Archer Pipe & Supply   | 4        | G. Matthews          | ?          | Ot           | ?          | --            | ?    | 1248        | Pool   | CT    | Abd. 7-2          |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        |       | Operator             | Well No. | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |    | Total Depth | Class. | Tools | Remarks            |
|----------------------|------------|---------------|-----------------|-------|----------------------|----------|-----------------------|------------|--------------|------------|---------------|----|-------------|--------|-------|--------------------|
| MERCER COUNTY (con.) |            |               |                 |       |                      |          |                       |            |              |            |               |    |             |        |       |                    |
| 127-5                | Dublin     | S 12          | 750 SL 1090 EL  | NE    | Archer Pipe & Supply | 5        | G. Matthews           | ?          | Ot           | ?          | --            | ?  | 1256        | Pool   | CT    | Abd. 6-25          |
| 127-6                | Dublin     | S 12          | 950 SL 570 EL   | NE    | Archer Pipe & Supply | 6        | G. Matthews           | ?          | Ot           | ?          | --            | ?  | 1242        | Pool   | CT    | Abd. 9-15          |
|                      |            | SUMMARY       | ABANDONED-7     |       |                      |          |                       |            |              |            |               |    |             |        |       |                    |
| MIAMI COUNTY         |            |               |                 |       |                      |          |                       |            |              |            |               |    |             |        |       |                    |
| 8                    | Staunton   | S 1-S         | 0 NL 2100 WL    | NW    | Robert C. Pettit     | 1        | Trojan Farms, Inc.    |            |              |            |               |    |             | FWC    | RT    | Active             |
| 9                    | Staunton   | S 4-S         | 230 SL 230 EL   | NW    | Robert C. Pettit     | 1        | M. D. Knoop           |            |              |            |               |    |             | FWC    | RT    | Active             |
| 10                   | Union      | S 30          | 1390 NL 992 EL  | NE    | Golden Arrow G. & O. | 1        | Fox Investments, Inc. |            |              |            |               |    |             | FWC    | CT    | Active             |
|                      |            | SUMMARY       | GAS-0           | OIL-0 | COMBINATION-0        |          | DRY-0 TOTAL-0         |            |              |            | 0             | 0  | 0 FEET      |        |       |                    |
| MONROE COUNTY        |            |               |                 |       |                      |          |                       |            |              |            |               |    |             |        |       |                    |
| 1611                 | Center     | S 7-E         | 94 SL 68 WL     | NW    | John W. Gallagher    | 1        | Harry Smith           |            |              |            | --            |    |             | Pool   | CT    | Canceled           |
| 1618                 | Adams      | S 5           | 1840 NL 1146 WL | NE    | M. B. Becker et al   | 2        | Ralph Keevert         | 1963       | Mke          | Shot       | --            | 1  | 1748        | Pool   | CT    |                    |
| 1621                 | Lee        | S 27          | 1145 NL 1866 EL | SE    | O. A. Vess           | 13       | G. & P. Harmon        | 5-1        | Mke          | Shot       | --            | 2  | 915         | Pool   | CT    | Gas 15 MCF         |
| 1622                 | Bethel     | S 31          | 48 SL 454 EL    | NE    | Markey Oil Co.       | 2        | Josie Markey          | 11-28      | Ppk          | Shot       | --            | 10 | 1002        | Pool   | CT    |                    |
| 1623                 | Wayne      | S 32          | 495 SL 595 EL   | NW    | Baker Oil Co.        | 1        | Anthony Beznoska      | 2-29       | Min          | Shot       | --            | 3  | 1563        | Pool   | CT    | Gas 33 MCF         |
| 1624                 | Wayne      | S 13          | 792 SL 528 EL   | NW    | Leonard Hines        | 1        | O. R. Williams        |            |              |            |               |    |             | Pool   | CT    | Canceled           |
| 1625                 | Center     | S 13-N        | 462 SL 990 WL   | NE    | John W. Gallaher     | 2        | Lawrence Gallaher     | 3-?        | Mbe          | --         | --            | -- | 1240        | Pool   | CT    |                    |
| 1626                 | Bethel     | S 31          | 80 NL 240 EL    | SE    | Markey Oil Co.       | 1        | John Connor           | 2-7        | Pcr          | ?          | --            | 3  | 1080        | Pool   | CT    |                    |
| 1627                 | Malaga     | S 27          | 130 NL 1390 EL  | SE    | Moore Ridge Oil Co.  | 1        | Joe Coffey            |            |              |            |               |    |             | Pool   | CT    | Canceled           |
| 1628                 | Malaga     | S 27          | 130 SL 890 EL   | NE    | Moore Ridge Oil Co.  | 1        | William Moore         |            |              |            |               |    |             | Pool   | CT    | Replaced by P-1634 |
| 1629                 | Bethel     | S 25          | 1269 NL 44 WL   | NW    | Miller Oil Co.       | 1        | Leva Miller           |            |              |            |               |    |             | Pool   | CT    | Replaced by P-1631 |
| 1630                 | Bethel     | S 8           | 1056 SL 660 WL  | SE    | F. O. Parks          | 4        | Orville Parks         | 4-6        | Pgr          | --         | --            | -- | 1085        | Pool   | CT    | Gas 5 MCF          |
| 1631                 | Bethel     | S 25          | 1269 NL 44 WL   | NW    | Miller Oil Co.       | 1        | Leva Miller           | 6-6        | Msq          | Nat        | --            | 4  | 1820        | Pool   | CT    | Gas 42 MCF         |
| 1632                 | Wayne      | S 32          | 1093 SL 160 EL  | NW    | Baker Oil Co.        | 2        | Anthony Beznoska      | 6-15       | Mbe          | Shot       | --            | 3  | 1495        | Pool   | CT    |                    |
| 1633                 | Green      | S 9-W         | 198 SL 528 WL   | NE    | F. S. Paulus         | 1        | George Roth, Jr.      | 7-30       | Mke          | Shot       | --            | -- | 1380        | Pool   | CT    |                    |
| 1634                 | Malaga     | S 27-E        | 100 SL 840 EL   | NE    | Guy S. McKelvey      | 1        | Moore-Arnold          | 8-18       | Mke          | Nat?       | 325           | -- | 1427        | Pool   | CT    | Replaces P-1628    |
| 1635                 | Wayne      | S 33          | 924 NL 264 EL   | SE    | M. C. Nalley         | 1        | Harry Stead           | 9-26       | Mbe          | Shot       | 397           | -- | 1925        | Pool   | CT    |                    |
| 1636                 | Bethel     | S 33          | 211 NL 554 EL   | SE    | Sycamore Oil Co.     | 2-A      | G. & M. Martin        |            |              |            |               |    |             | Pool   | CT    | Active             |
| 1637                 | Bethel     | S 10          | 840 NL 670 WL   | SE    | Swartz Farm O. & G.  | 23       | H. C. Swartz          |            |              |            |               |    |             | Pool   | CT    | Active             |
| 1638                 | Washington | S 17          | 525 SL 354 EL   | NE    | Betsy Oil Co.        | 2        | Harry Armstrong       | 10-2       | Min          | Shot       | --            | 1  | 1520        | Pool   | CT    |                    |
| 1639                 | Malaga     | S 27-E        | 1130 SL 1446 EL | SE    | Guy S. McKelvey      | 1        | Joe Coffey            | 10-1       | Mke          | Nat?       | 852           | -- | 1435        | Pool   | CT    |                    |
| 1640                 | Bethel     | S 31          | 1266 NL 348 EL  | NE    | Antil Oil Co.        | 1        | Josie Antil           | 12-16      | Msq          | Nat?       | --            | 6  | 1732        | Pool   | CT    |                    |
| 1641                 | Wayne      | S 33-E        | 1188 NL 547 EL  | SE    | M. C. Nalley         | 1        | Robert Love           |            |              |            |               |    |             | Pool   | CT    | Active             |
| 1642                 | Bethel     | S 33          | 825 SL 330 WL   | NW    | O. C. Bode et al     | 2        | O. C. Bode            |            |              |            |               |    |             | Pool   | CT    | Active             |
| 1643                 | Bethel     | S 30          | 1450 SL 750 WL  | SW    | Carl Martin          | 8        | Charles Hall          |            |              |            |               |    |             | Pool   | CT    | Active             |
|                      |            | SUMMARY       | GAS-3           | OIL-9 | COMBINATION-0        |          | DRY-3 TOTAL-15        |            |              |            | 1,574         | 33 | 21,387 FEET |        |       |                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number            | Township     | Land Division | Location        | Operator | Well No.                 | Lease | Date Comp.             | Deepest Unit | Type Comp. | Initial Prod. |     | Total Depth | Class. | Tools | Remarks |                    |
|--------------------------|--------------|---------------|-----------------|----------|--------------------------|-------|------------------------|--------------|------------|---------------|-----|-------------|--------|-------|---------|--------------------|
| MONROE COUNTY (con.)     |              |               |                 |          |                          |       |                        |              |            |               |     |             |        |       |         |                    |
| OLD WELLS DRILLED DEEPER |              |               |                 |          |                          |       |                        |              |            |               |     |             |        |       |         |                    |
| 365-A-4                  | Washington   | S 17          | 1120 NL 2420 EL | NE       | National Fuel Gas        | 4     | M. J. Heddleson        | 1921         | Min        | --            | --  | ?           | 1289   | Pool  | CT      | New footage-552    |
| 631-A-2                  | Bethel       | S 33          | 2041 NL 443 EL  | NE       | Remaka Co.               | 4     | M. J. Heddleson        | 1-1          | Mbe        | Shot          | --  | 2           | 1841   | Pool  | CT      |                    |
| 631-A-3                  | Bethel       | S 33          | 1980 SL 726 WL  | NE       | Pure Oil Co.             | 2     | C. W. Liff             | ?            | Min        | --            | --  | ?           | 1212   | Pool  | CT      | New footage-163    |
|                          |              |               |                 |          | Sycamore Oil Co.         | 2     | Charles Curtis         | 10-30        | Min        | --            | --  | ?           | 1375   | Pool  | CT      |                    |
| 1581                     | Bethel       | S 33          | 1452 NL 244 EL  | NE       | ?                        | 3     | Morrison               | 1960         | Min        | --            | --  | --          | 1341   | Pool  | CT      | New footage-151    |
|                          |              |               |                 |          | Sycamore Oil Co.         | 3     | C. & F. Williams       | 12-15        | Min        | --            | --  | --          | 1492   | Pool  | CT      |                    |
|                          |              |               |                 |          | ?                        | 1     | C. W. Curtis           | 1961         | Pcr        | --            | --  | --          | 740    | Pool  | CT      | New footage-635    |
| 1                        | C. W. Curtis | 6-12          | Msq             | Shot     | 150                      | 5     | 1375                   |              |            |               |     |             |        |       |         |                    |
| SUMMARY                  |              |               |                 |          |                          |       |                        |              |            |               | 150 | 7           | 1,501  | FEET  |         |                    |
| OLD WELLS ABANDONED      |              |               |                 |          |                          |       |                        |              |            |               |     |             |        |       |         |                    |
| 328                      | Franklin     | S 9           | 1100 SL 1450 WL | SW       | Ohio Fuel Gas Co.        | 2     | L. W. Carpenter        | 1944         | P          | ?             | ?   | --          | 845    | Pool  | CT      | Abd. 2-8           |
| 358                      | Seneca       | S 4           | 710 NL 350 WL   | SW       | Ohio Fuel Gas Co.        | 2     | C. G. Weisend          | 1944         | Mbe        | ?             | ?   | --          | 1660   | Pool  | CT      | Abd. 1-21          |
| 375                      | Seneca       | S 10          | 670 SL 860 EL   | NW       | Ohio Fuel Gas Co.        | 1     | Forrest McCoy          | 1945         | Mbe        | ?             | ?   | --          | 1834   | Pool  | CT      | Abd. 1-27          |
| 591-A-1                  | Seneca       | S 10          | 825 SL 25 EL    | SW       | Ohio Fuel Gas Co.        | 1     | Alexander Burkhardt    | 1918         | Mbe        | ?             | --  | --          | 1616   | Pool  | CT      | Abd. 1-31          |
| 1163                     | Sunbury      | S 6           | 150 NL 1000 EL  | SW       | St. Clair Oil Co.        | 1     | Vernon Jeffers         | 1951         | Mbe        | Shot          | 200 | --          | 2185   | Pool  | CT      | Abd. 7-11          |
| 1418                     | Summit       | S 12          | 684 NL 195 WL   | SE       | Burton Enterprises(King) | 1-A   | Lewis Williams         | 1955         | Mbe        | Shot          | 35  | --          | 1944   | Pool  | CT      | Abd. 8-20          |
| 1619-A-2                 | Jackson      | S 35          | 1100 NL 400 EL  | SE       | Tuel & Thoenen           | 2     | E. Whitney(R. Ludolph) | 1916         | Mbe        | ?             | ?   | --          | 1796   | Pool  | CT      | Abd. 5-12          |
| SUMMARY                  |              |               |                 |          |                          |       |                        |              |            |               |     |             |        |       |         |                    |
| ABANDONED-7              |              |               |                 |          |                          |       |                        |              |            |               |     |             |        |       |         |                    |
| MORGAN COUNTY            |              |               |                 |          |                          |       |                        |              |            |               |     |             |        |       |         |                    |
| 1032                     | Union        | S 3           | 1194 SL 235 WL  | NE       | Kalanco                  | 5     | F. S. Davis            | 1-31         | Sal        | Acid?         | --  | --          | 4886   | Pool  | CT      | Canceled           |
| 1048                     | Penn         | S 14          | 310 NL 1234 WL  | SW       | Richard G. Lawton        | 1     | W. T. Hilaman          |              |            |               |     |             |        | Pool  | CT      |                    |
| 1051                     | Morgan       | S 6           | 110 NL 665 WL   | NE       | Ohio Fuel Gas Co.        | 1     | D. A. Gander(B. Reed)  | 2-29         | Pcr        | --            | --  | --          | 214    | Pool  | CT      | OW Abd.            |
| 1052                     | Penn         | S 15          | 330 SL 330 EL   | SE       | Richard G. Lawton        | 1     | Clyde Williams         |              |            |               |     |             |        | Pool  | CT      | Canceled           |
| 1053                     | Union        | S 3           | 952 SL 434 WL   | NE       | Kalanco                  | 11    | F. S. Davis            |              |            |               |     |             |        | Pool  | CT      |                    |
| 1054                     | Union        | S 3           | 605 SL 612 WL   | NE       | Kalanco                  | 12    | F. S. Davis            | 4-9          | Pcr        | Nat           | --  | --          | 221    | Pool  | CT      | Replaced by P-1062 |
| 1055                     | Union        | S 3           | 559 SL 716 WL   | NE       | Kalanco                  | 13    | F. S. Davis            |              |            |               |     |             |        | Pool  | CT      | Replaced by P-1063 |
| 1056                     | Union        | S 3           | 460 SL 649 WL   | NE       | Kalanco                  | 14    | F. S. Davis            |              |            |               |     |             |        | Pool  | CT      | Replaced by P-1064 |
| 1057                     | Union        | S 3           | 338 SL 681 WL   | NE       | Kalanco                  | 15    | F. S. Davis            |              |            |               |     |             |        | Pool  | CT      | Replaced by P-1065 |
| 1058                     | Union        | S 3           | 1408 SL 438 WL  | NE       | Kalanco                  | 16    | F. S. Davis            |              |            |               |     |             |        | Pool  | CT      | Gas 5 MCF          |
| 1059                     | Union        | S 14          | 864 SL 945 EL   | SW       | Joe L. Keith             | 2     | Ed Harrison            | 5-7          | Mbe        | --            | --  | --          | 1441   | Pool  | CT      | Gas 40 MCF         |
| 1060                     | Penn         | S 17          | 543 NL 1809 EL  | NE       | A & M Dlg. Co.           | 1     | Raymond Janes          | 3-12         | Ppk        | Nat           | --  | 1           | 127    | Out   | CT      |                    |
| 1061                     | Penn         | S 17          | 637 NL 1719 EL  | NE       | A & M Dlg. Co.           | 2     | Raymond Janes          | 5-8          | Ppk        | Shot          | --  | --          | 131    | Pool  | CT      |                    |
| 1062                     | Union        | S 3           | 605 SL 612 WL   | NE       | Kalanco                  | 12    | F. S. Davis            | 7-11         | Pcr        | Nat?          | --  | 1           | 172    | Pool  | CT      | Replaces P-1054    |
| 1063                     | Union        | S 3           | 559 SL 716 WL   | NE       | Kalanco                  | 13    | F. S. Davis            | 6-26         | Pcr        | Nat?          | --  | 1           | 193    | Pool  | CT      | Replaces P-1055    |
| 1064                     | Union        | S 3           | 460 SL 649 WL   | NE       | Kalanco                  | 14    | F. S. Davis            | ?            | Mbe        | Frac          | --  | 6           | 1623   | Pool  | CT      | Active             |
| 1065                     | Union        | S 3           | 338 SL 681 WL   | NE       | Kalanco                  | 15    | F. S. Davis            |              |            |               |     |             |        | Pool  | CT      | Active             |
| 1066                     | Marion       | S 7           | 565 SL 2640 WL  | SE       | T. F. Johnson, Jr.       | 1     | E. & M. Bowman         |              |            |               |     |             |        | Pool  | CT      | Abd. loc.          |
| 1067                     | Marion       | S 19          | 665 SL 640 WL   | SE       | T. F. Johnson, Jr.       | 2     | C. M. Huffman          |              |            |               |     |             |        | Pool  | CT      |                    |
| 1068                     | Malta        | S 23          | 1075 SL 2480 WL | NE       | Ohio Fuel Gas Co.        | 1     | Girl Scout Council     |              |            |               |     |             |        | Pool  | CT      | OW Abd.            |



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|----------------------|-----------|---------------|-------------------|---------------|-----------------------------|----------------|-----------------------|--------------|------------|---------------|-------|-------------|--------|-------|---------------|------------|
|                      |           |               |                   |               |                             |                |                       |              |            | MCFGPD        | BOPD  |             |        |       |               |            |
| MORGAN COUNTY (con.) |           |               |                   |               |                             |                |                       |              |            |               |       |             |        |       |               |            |
| 1069                 | Bristol   | S 31          | 325 SL 520 EL     | SW            | Ohio Fuel Gas Co.           | 1              | B. F. Reed(Apperson)  |              |            |               |       |             | Pool   | CT    | OW Abd.       |            |
| 1070                 | Penn      | S 17          | 570 NL 2013 EL    | NE            | A & M Dlg. Co.              | 4              | Raymond Janes         | 7-18         | Ppk        | --            | --    | 124         | Pool   | CT    |               |            |
| 1071                 | Homer     | S 31          | 600 SL 1080 WL    | SW            | Producers Dlg. & Contr.     | 2              | Fred Saunders         | 8-20         | Mbe        | Frac          | 73    | 10          | 1284   | Pool  | CT            |            |
| 1072                 |           |               | No data available |               |                             |                |                       |              |            |               |       |             |        |       |               |            |
| 1073                 | Deerfield | S 29          | 610 NL 570 WL     | NW            | Dusty Dlg. Co.              | 1              | N. L. Altier          | 9-17         | Sal        | Frac          | 2500  | --          | 4160   | Pool  | CT            |            |
| 1074                 | Penn      | S 8           | 1716 SL 1745 WL   | SW            | A & M Dlg. Co.              | 1              | Inez Janes            | 9-7          | Ppk        | Shot          | --    | 1           | 185    | Pool  | CT            |            |
| 1075                 | Penn      | S 8           | 1576 SL 1659 WL   | SW            | A & M Dlg. Co.              | 2              | Inez Janes            | 11-20        | Ppk        | Shot          | --    | 1           | 157    | Pool  | CT            |            |
| 1076                 | Malta     | S 23          | 410 SL 1620 WL    | NW            | Ohio Fuel Gas Co.           | 2              | Girl Scout Council    |              |            |               |       |             | Pool   | CT    | OW Abd.       |            |
| 1077                 | Windsor   | L 1115        | 183 SL 1231 EL    | NW            | Kalanco                     | 1-P            | L. D. White           |              |            |               |       |             | Pool   | CT    | Air injection |            |
| 1078                 | Windsor   | L 1115        | 14 NL 1057 WL     | NW            | Kalanco                     | 1-A            | L. D. White           |              |            |               |       |             | Pool   | CT    | Air injection |            |
| 1079                 | Windsor   | L 1115        | 285 NL 1017 WL    | NW            | Kalanco                     | 2-A            | L. D. White           |              |            |               |       |             | Pool   | CT    | Air Injection |            |
| 1080                 | Windsor   | L 1115        | 431 NL 1323 WL    | NW            | Kalanco                     | 3-A            | L. D. White           |              |            |               |       |             | Pool   | CT    | Air Injection |            |
| 1081                 | Windsor   | L 1115        | 121 NL 1498 WL    | NW            | Kalanco                     | 4-A            | L. D. White           |              |            |               |       |             | Pool   | CT    | Air Injection |            |
|                      |           | SUMMARY       | GAS-1 OIL-6       | COMBINATION-1 |                             | DRY-6 TOTAL-14 |                       |              |            |               | 2,573 | 21          | 14,918 | FEET  |               |            |
| OLD WELLS ABANDONED  |           |               |                   |               |                             |                |                       |              |            |               |       |             |        |       |               |            |
| 53-A-1               | Morgan    | S 12          | 1250 NL 930 WL    | NW            | Ohio Fuel Gas Co.           | 1              | John Greer(D. Head)   | 1897         | Mbe        | ?             | ?     | --          | 1528   | Pool  | CT            | Abd. 2-14  |
| 61-A                 | Morgan    | S 12          |                   |               | Ohio Fuel Gas Co.           | 1              | W. Willis(J. Greer)   | 1896         | Mbe        | Shot          | ?     | --          | 1534   | Pool  | CT            | Abd. 2-25  |
| 62-A-1               | Morgan    | S 12          | 100 SL 200 WL     | NW            | Ohio Fuel Gas Co.           | 1-A            | J. & F. Dover         | 1898         | Mbe        | ?             | ?     | --          | 1348   | Pool  | CT            | Abd. 2-3   |
| 122                  | Deerfield | S 20          |                   |               | Robert Altier               | 1              | H. H. Bankes          | ?            | Mbe        | ?             | ?     | ?           | ?      | Pool  | CT            | Abd. 9-1   |
| 147-A                | Malta     | S 26          |                   |               | Ohio Fuel Gas Co.           | 1              | E. R. Harmer          | 1922         | Mbe        | ?             | ?     | --          | 1571   | Pool  | CT            | Abd. 3-6   |
| 149-A-5              | Penn      | S 8           | 740 SL 60 EL      | NW            | Spears & DePuy              | 5              | S. & B. Harris        | ?            | ?          | ?             | ?     | --          | 260?   | Pool  | CT            | Abd. 11-17 |
| 273                  | York      | S 26-W        |                   |               | Ohio Fuel Gas Co.           | 1              | C. L. Weaver          | 1942         | Mbe        | Nat           | 74    | --          | 1169   | Pool  | CT            | Abd. 1-17  |
| 332-A-3              | Marion    | S 23          | 2060 SL 1980 EL   | SE            | Ohio Fuel Gas Co.           | 3              | H. D. Huffman         | 1928         | Mbe        | Shot          | 152   | --          | 1548   | Pool  | CT            | Abd. 6-4   |
| 337                  | York      | S 34-E        | 1180 NL 1860 EL   | NE            | L. G. C. (National G. & O.) | 1              | Eppley-Bush           | 1943         | Sal        | ?             | 3258  | --          | 4247   | Pool  | CT            | Abd. 8-18  |
| 379-A                | Marion    | S 2           |                   |               | Ohio Fuel Gas Co.           | 2              | C. J. Humphrey        | 1927         | Mbe        | ?             | ?     | --          | 1530   | Pool  | CT            | Abd. 6-10  |
| 481                  | York      | S 34-W        | 700 NL 660 EL     | NE            | Ohio Fuel Gas Co.           | 1              | Hull-Rambs            | 1946         | Sal        | ?             | 123   | --          | 3849   | Pool  | CT            | Abd. 4-13  |
| 485                  | Bloom     | S 8           | 340 NL 920 EL     | NE            | Mt. Vernon Car Mfg. Co.     | 1              | C. H. Van Horn        | 1946         | Sal        | Shot?         | 1324  | --          | 4394   | Pool  | CT            | Abd. 7-30  |
| 512                  | York      | S 34-W        |                   |               | Ohio Fuel Gas Co.           | 3              | M. E. Hull            | 1946         | Sal        | Shot?         | 1230  | --          | 3729   | Pool  | CT            | Abd. 4-6   |
| 566-A                | Marion    | S 26          |                   |               | Bowman O. & G. Co.          | 1              | Clyde Spurrier        | ?            | Mbe        | ?             | ?     | ?           | ?      | Pool  | CT            | Abd. 10-5  |
| 934                  | Homer     | S 11          | 1000 NL 1075 WL   | NE            | Ohio Fuel Gas Co.           | 1              | Glenn Van Horn        | 1958         | Mbe        | Frac          | 39    | --          | 1428   | Pool  | CT            | Abd. 6-12  |
| 1019                 | Penn      | S 14          | 1165 SL 328 WL    | NE            | Grim Bros. Dlg. Co.         | 1              | Dale Strong           | 1962         | Mbe        | Frac          | 100   | 10          | 1714   | Pool  | CT            | Abd. 9-28  |
| 1051                 | Morgan    | S 6           | 110 NL 665 WL     |               | Ohio Fuel Gas Co.           | 1              | D. Gander(B. F. Reed) | 1899         | Mbe        | Shot          | ?     | --          | 1472   | Pool  | CT            | Abd. 3-?   |
| 1068                 | Malta     | S 23          | 1070 SL 2480 WL   | NW            | Ohio Fuel Gas Co.           | 1              | Girl Scout Council    | 1912         | Mbe        | Shot          | ?     | --          | 1510   | Pool  | CT            | Abd. 7-?   |
| 1069                 | Bristol   | S 31          | 325 SL 520 EL     | SW            | Ohio Fuel Gas Co.           | 1              | B. F. Reed(Apperson)  | 1900         | Mbe        | Shot          | ?     | --          | 1584   | Pool  | CT            | Abd. 7-28  |
| 1076                 | Malta     | S 23          | 410 SL 1620 WL    | NW            | Ohio Fuel Gas Co.           | 2              | Girl Scout Council    | ?            | Mbe        | Shot          | ?     | ?           | ?      | Pool  | CT            | Abd. 10-14 |
|                      |           | SUMMARY       | ABANDONED-20      |               |                             |                |                       |              |            |               |       |             |        |       |               |            |

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| Permit<br>Number     | Township      | Land<br>Division | Location        | Operator      | Well<br>No.                | Lease       | Date<br>Comp.           | Deepest<br>Unit | Type<br>Comp. | Initial Prod. |      | Total<br>Depth | Class. | Tools | Remarks               |                              |
|----------------------|---------------|------------------|-----------------|---------------|----------------------------|-------------|-------------------------|-----------------|---------------|---------------|------|----------------|--------|-------|-----------------------|------------------------------|
|                      |               |                  |                 |               |                            |             |                         |                 |               | MCFGPD        | BOPD |                |        |       |                       |                              |
| MORGAN COUNTY (con.) |               |                  |                 |               |                            |             |                         |                 |               |               |      |                |        |       |                       |                              |
| AIR INJECTION        |               |                  |                 |               |                            |             |                         |                 |               |               |      |                |        |       |                       |                              |
| 1077                 | Windsor       | L 1115           | 183 NL 1231 WL  | NW<br>Kalanco | 1-P                        | L. D. White |                         |                 |               |               |      |                |        |       | Active                |                              |
| 1078                 | Windsor       | L 1115           | 14 NL 1057 WL   |               | 1-A                        | L. D. White |                         |                 |               |               |      |                |        |       | Active                |                              |
| 1079                 | Windsor       | L 1115           | 285 NL 1017 WL  |               | 2-A                        | L. D. White |                         |                 |               |               |      |                |        |       | Active                |                              |
| 1080                 | Windsor       | L 1115           |                 |               | 3-A                        | L. D. White |                         |                 |               |               |      |                |        |       | Active                |                              |
| 1081                 | Windsor       | L 1115           |                 |               | 4-A                        | L. D. White |                         |                 |               |               |      |                |        |       | Active                |                              |
|                      |               | SUMMARY          | AIR INJECTION-0 |               |                            |             |                         |                 |               |               |      |                |        |       |                       |                              |
| MORROW COUNTY        |               |                  |                 |               |                            |             |                         |                 |               |               |      |                |        |       |                       |                              |
| 76                   | Canaan        | S 32             | 1970 SL 630 EL  | SE            | Ashland O. & R. Co.        | 1           | W. & F. Ashbaugh        |                 |               |               |      |                | Pool   | RT    | Abd. loc.             |                              |
| 133                  | Gilead        | S 3              | 100 SL 243 EL   | NE            | Mammoth Prod. Co.          | 1           | Temple-Mansfield        | 1963            | Doh           | --            | --   | --             | Pool   | RT    | Discontinued 408 ft.  |                              |
| 163                  | Lincoln       | L 27 (1Q-E)      | 292 NL 1637 WL  |               | Lake Shore Pipe Line       | 1           | W. & E. Laroche         | 9-23            | €cr           | Acid          | --   | --             | 3614   | FWC   | CT                    | Flow oil. Unable to complete |
| 171                  | Gilead        | S 2-E            | 480 NL 1000 WL  | SE            | Jenkins Eng. ; S. Triangle | 1           | Morrow Co. Fairgrnds    | 1963            | €cr           | Acid          | --   | 200            | 3237   | Pool  | RT                    |                              |
| 191                  | Bennington    | S 22             | 1420 SL 50 EL   | NE            | Howard D. Atha             | 1           | H. & M. Wolf            |                 |               |               |      |                | Pool   | RT    | Abd. loc.             |                              |
| 193                  | Gilead        | S 22-S           | 248 NL 732 WL   | NE            | Bill D. Vaught             | 1           | C. M. Bruns             | 5-2             | €cr           | --            | --   | --             | 3229   | Pool  | CT                    |                              |
| 194                  | Gilead        | S 22-S           | 1198 NL 760 WL  | NE            | Bill D. Vaught             | 1           | H. & G. Offut           | 1-14            | €cr           | --            | --   | --             | 3215   | Pool  | CT                    |                              |
| 198                  | Gilead        | S 3              | 160 SL 865 WL   | SE            | Robert Wray                | 2           | J. P. Newson            | 9-3             | €cr           | --            | --   | --             | 3292   | Pool  | CT                    |                              |
| 224                  | Gilead        | S 35-W           | 1060 SL 294 EL  | SE            | Patrick Pet. Co.           | 1           | David Cover             | 1-10            | €cr           | --            | --   | --             | 3200   | Pool  | CT                    |                              |
| 228                  | Gilead        | S 30             | 660 SL 375 EL   | SE            | Grantley Co.               | 1           | C. & M. Ward            | 1-23            | €cr           | --            | --   | --             | 3645   | NWC   | CT                    |                              |
| 230                  | Gilead        | S 35             | 860 SL 330 WL   | SE            | Howard D. Atha             | 1           | C. & F. Bourquin        |                 |               |               |      |                | Pool   | RT    | Canceled              |                              |
| 232                  | Gilead        | S 2-E            | 1461 SL 93 WL   | NW            | Hobson Oil Co.             | 1           | H. & C. Rich            | 2-17            | €cr           | --            | --   | --             | 3242   | Pool  | CT                    |                              |
| 236                  | Gilead        | S 3              | 67 SL 756 EL    | NE            | Sam Cassidy                | 1           | Ruth Newson             | 1-29            | €cr           | Acid          | --   | 400            | 3257   | Pool  | CT                    |                              |
| 242                  | Gilead        | S 3              | 100 NL 1220 EL  | SW            | Maury W. Curtis            | 1           | R. L. Sipe              |                 |               |               |      |                | Pool   | CT    | Abd. loc.             |                              |
| 251                  | Cardington    | S 5              | 200 SL 816 EL   | SW            | Mammoth Prod. Co.          | 4           | Onieta Miller           | 1963            | €cr           | Acid          | --   | 75             | 2963   | Pool  | RT                    |                              |
| 260                  | Gilead        | S 15             | 370 NL 150 WL   | SE            | Hobson Oil Co.             | 1           | L. & R. Hicks           | 2-24            | €cr           | --            | --   | --             | 3173   | Pool  | CT                    |                              |
| 263                  | Gilead        | S 12             | 662 NL 85 WL    | NW            | Wayne Davis                | 1           | P. & L. Davis           | 1963            | €cr           | Acid          | --   | --             | 3350   | Pool  | RT                    |                              |
| 266                  | Cardington    | L 7              | 1056 SL 407 WL  |               | B. A. Floto & Assoc.       | 1           | Nazarene Church         | 1-15            | €cr           | Acid          | --   | 50             | 3048   | Out   | CT                    | Abd. 11-4-64                 |
| 272                  | Gilead        | S 2-W            | 345 SL 530 WL   | NW            | Perry Fulk, Sr.            | A-1         | E. G. Brinkman          |                 |               |               |      |                | Pool   | RT    | Replaced by P-1571    |                              |
| 274                  | Lincoln       | L 27 (1Q)        | 316 SL 449 EL   |               | Jerry Moore                | 1           | G. & E. Fraker          | 1-3             | €cr           | Acid          | --   | 180            | 3210   | Pool  | RT                    |                              |
| 281                  | Gilead        | S 18             | 432 NL 453 EL   | SW            | Thomas A. Flannery         | 1           | W. J. Burns             |                 |               |               |      |                | NWC    | RT    | Canceled              |                              |
| 282                  | Gilead        | S 18             | 610 SL 820 EL   | NE            | Thomas A. Flannery         | 1           | P. & M. Lyons           |                 |               |               |      |                | Pool   | RT    | Canceled              |                              |
| 283                  | Gilead        | S 18             | 340 SL 153 EL   | NW            | Thomas A. Flannery         | 1           | H. E. Price             |                 |               |               |      |                | Pool   | RT    | Canceled              |                              |
| 284                  | Gilead        | S 7              | 110 NL 736 EL   | SW            | Thomas A. Flannery         | 1           | J. & L. Cole            |                 |               |               |      |                | Pool   | RT    | Canceled              |                              |
| 285                  | Gilead        | S 2-W            | 521 NL 191 EL   | NE            | Dee Dlg. (Mid-Ohio O & G)  | 1           | Village of Edison(Dunn) | 1-23            | €cr           | --            | --   | --             | 3181   | Pool  | RT                    |                              |
| 289                  | Bennington    | S 20             | 1000 SL 330 WL  | SW            | Thurlow Weed               | 1           | Osborn Heirs            | 1-14            | €cr           | --            | --   | --             | 3723   | Pool  | CT                    |                              |
| 292                  | S. Bloomfield | S 25             | 660 SL 660 EL   | NE            | Ferguson Oil Co.           | 1           | D. Hankins              | 1-23            | €cr           | --            | --   | --             | 3839   | FWC   | RT                    |                              |
| 294                  | Gilead        | S 2-W            | 794 NL 100 WL   | NW            | J. Moore; Kin-Ark Oil      | C-1         | Barbara Scott           |                 |               |               |      |                | Pool   | RT    | Canceled              |                              |
| 296                  | Gilead        | S 35-E           | 1384 NL 1455 EL | NE            | Carter Devel. Co.          | 1           | R. & H. Shaw            | ?               | Oqu           | --            | --   | --             | Pool   | CT    | Discontinued 1600 ft. |                              |
| 299                  | Lincoln       | L 26 (1Q)        | 140 SL 60 WL    |               | Austin Hemphill            | 2           | Hollywood Unit(Toler)   | 1963            | €cr           | Acid          | --   | 463            | 3181   | Pool  | RT                    |                              |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location       | Operator | Well No.                 | Lease | Date Comp.              | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |  |
|----------------------|---------------|---------------|----------------|----------|--------------------------|-------|-------------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|--|
|                      |               |               |                |          |                          |       |                         |              |            | MCFGPD        | BOPD |             |        |       |         |  |
| MORROW COUNTY (con.) |               |               |                |          |                          |       |                         |              |            |               |      |             |        |       |         |  |
| 302                  | Gilead        | S 2-W         | 295 NL 433 WL  | NE       | Howard D. Atha           | 5     | E. & M. Peoples         | 1963         | €cr        | Acid          | --   | 120         | 3075   | Pool  | RT      |  |
| 309                  | Cardington    | S 23          | 1770 NL 800 WL | NW       | Killbuck Dlg. Co.        | 1     | Smiley & Beam           | 1963         | €cr        | Acid          | --   | 400         | 3058   | Pool  | CT      |  |
| 311                  | Lincoln       | L 7 (1Q)      | 900 NL 200 EL  |          | Cavalier Oil Co.         | 1     | V. F. Blakely           | 1963         | €cr        | Acid          | --   | 115         | 3307   | Out   | RT      |  |
| 312                  | Cardington    | S 23          | 1495 SL 314 WL | NW       | Petrol Servicing, Inc.   | 1     | O. & F. McDonald        | 1-13         | €cr        | Acid          | --   | 220         | 3121   | Pool  | CT      |  |
| 315                  | Harmony       | L 18 (2Q)     | 1093 NL 752 WL |          | Collins & Young          | 1     | D. & H. Williams        | 1-11         | €cr        | --            | --   | --          | 3608   | NWC   | CT      |  |
| 316                  | Lincoln       | L 26 (1Q)     | 1304 NL 110 WL |          | Austin Hemphill          | 3     | Hollywood Unit(Martin)  |              |            |               |      |             |        | Pool  | RT      | Canceled<br>Replaced by P-1326<br>Canceled |
| 317                  | Lincoln       | L 27 (1Q)     | 156 NL 60 WL   |          | Austin Hemphill          | 4     | Hollywood Unit(Whipple) |              |            |               |      |             |        | Pool  | RT      |  |
| 318                  | Lincoln       | L 26 (1Q)     | 1081 NL 110 WL |          | Austin Hemphill          | 5     | Hollywood Unit(Martin)  |              |            |               |      |             |        | Pool  | RT      |  |
| 319                  | Gilead        | S 12          | 646 SL 1019 EL | NW       | Keillor & Clark          | 1     | H. E. Nelson            | 1-29         | €cr        | --            | --   | --          | 3484   | Pool  | CT      |  |
| 323                  | Gilead        | S 6           | 1185 NL 520 WL | SW       | Hobson Oil Co.           | 1     | S. & V. Hobson          | 1-22         | €cr        | --            | --   | --          | 3630   | Out   | CT      |  |
| 324                  | Cardington    | S 21          | 550 NL 1008 EL | SE       | Jenkins Engineering      | 2     | Lawhead Unit            | 1-23         | €cr        | --            | --   | --          | 3063   | NWC   | CT      |  |
| 326                  | S. Bloomfield | S 23          | 1056 NL 888 WL | NW       | Jebb, Inc.               | 1     | P. & E. Heier           | 2-11         | €cr        | --            | --   | --          | 3995   | FWC   | CT      |  |
| 329                  | Cardington    | S 22          | 180 SL 550 EL  | SE       | Jerry D. Black           | 1     | C. Maxwell              | 1-19         | €cr        | Acid          | --   | 25          | 3074   | Out   | CT      |  |
| 330                  | Gilead        | S 2-E         | 65 NL 997 EL   | SE       | Dale Kirkconnell         | 1     | H. & C. Rick            |              |            |               |      |             |        | Pool  | RT      |  |
| 331                  | Gilead        | S 2-E         | 91 NL 732 EL   | SE       | Mammoth Prod. Co.        | 1     | C. & G. Gallaher        | 1963         | €cr        | Acid          | --   | 150         | 3218   | Pool  | RT      |  |
| 332                  | Gilead        | S 2-E         | 191 SL 516 EL  | NE       | Mammoth Prod. Co.        | 1     | E. G. Mozier            |              |            |               |      |             |        | Pool  | RT      | Canceled                                   |
| 334                  | Bennington    | S 18          | 200 NL 700 WL  | NE       | Gibson Excavating Co.    | 1     | W. & M. Ashbaugh        | 2-13         | €cr        | --            | --   | --          | 3600   | Pool  | RT      |  |
| 335                  | Bennington    | S 13 (4Q)     | 210 SL 700 WL  |          | Gibson Excavating Co.    | 2     | Sadie Cramer            | 1-28         | €cr        | --            | --   | --          | 3540   | Pool  | RT      |  |
| 337                  | Gilead        | S 2-W         | 610 NL 350 WL  | NE       | Jerry Moore, Inc.        | B-2   | Barbara Scott           | 1963         | €cr        | Acid          | --   | 45          | 3141   | Pool  | RT      |  |
| 339                  | Cardington    | S 23          | 1204 SL 349 WL | NW       | Kemmerly-Loffland-Basore | 1     | Golela Hobbs            | 2-3          | €cr        | Acid          | --   | 780         | 3100   | Pool  | RT      |  |
| 340                  | Cardington    | S 14          | 795 SL 993 EL  | SW       | R. E. McDowell           | 1     | F. Easterday            |              |            |               |      |             |        | Pool  | CT      | Canceled                                   |
| 341                  | Cardington    | S 9           | 134 SL 188 WL  | SW       | David Law                | 1     | R. & M. Miley           | 1-7          | €cr        | --            | --   | --          | 3011   | Pool  | CT      |  |
| 344                  | Bennington    | L 2 (2Q)      | 750 SL 2750 EL |          | Clinton Oil Co.          | 1     | J. L. Christian         | 1-10         | €cr        | Acid          | --   | 25          | 3464   | Pool  | CT      |  |
| 345                  | Gilead        | S 1           | 300 NL 263 WL  | SW       | Howard D. Atha           | 1-A   | George Levering         | 1-7          | €cr        | --            | --   | --          | 3289   | Pool  | RT      |  |
| 346                  | Gilead        | S 2W          | 1550 NL 500 EL | NE       | J. Moore; Kin-Ark Oil    | 4     | Pearl Thomas            | 1963         | €cr        | Acid          | --   | 360         | 3200   | Pool  | RT      |  |
| 347                  | Gilead        | S 2-W         | 231 NL 761 EL  | NE       | J. N. Weakley            | 1     | L. S. Kincaid           | 1963         | €cr        | --            | --   | --          | 3161   | Pool  | RT      |  |
| 348                  | Gilead        | S 2-E         | 790 SL 644 WL  | NE       | K. D. Brown              | 1     | Arnold-Neptune          | 1-15         | €cr        | --            | --   | --          | 3263   | Pool  | RT      |  |
| 349                  | Gilead        | S 2-E         | 190 SL 926 WL  | NE       | Patrick Pet. Co.         | 2     | Bostic Unit(Healea)     |              |            |               |      |             |        | Pool  | RT      |  |
| 350                  | Gilead        | S 2-E         | 96 SL 341 WL   | NE       | Patrick Pet. Co.         | 3     | Bostic Unit(Healea)     |              |            |               |      |             |        | Pool  | RT      |  |
| 351                  | Gilead        | S 2-E         | 445 SL 250 EL  | NW       | Patrick Pet. Co.         | 2     | W. D. McLaine           |              |            |               |      |             |        | Pool  | RT      |  |
| 352                  | Gilead        | S 2-E         | 125 NL 50 EL   | SE       | Patrick Pet. Co.         | 2     | J. Bostic               |              |            |               |      |             |        | Pool  | RT      | Canceled<br>Canceled                       |
| 353                  | Gilead        | S 35-E        | 1060 SL 50 EL  | SE       | K. D. Brown              | 1     | Kenneth Graham          |              |            |               |      |             |        | Pool  | RT      |  |
| 354                  | Gilead        | S 1           | 2065 NL 500 EL | NE       | K. D. Brown              | 1     | S. Richardson           | 2-21         | €cr        | --            | --   | --          | 3409   | Out   | CT      |  |
| 355                  | Gilead        | S 1           | 2040 NL 40 EL  | NE       | K. D. Brown              | 1     | I. Hutchinson           |              |            |               |      |             |        | Out   | CT      |  |
| 356                  | Gilead        | S 2-E         | 578 SL 295 WL  | NE       | K. D. Brown              | 2     | Arnold-Neptune          |              |            |               |      |             |        | Pool  | RT      |  |
| 357                  | Gilead        | S 2-E         | 137 SL 1471 WL | NE       | Patrick Pet. Co.         | 1     | W. W. Ackerman          |              |            |               |      |             |        | Pool  | RT      | Canceled                                   |
| 358                  | Gilead        | S 2-E         | 35 SL 1439 WL  | NE       | J. C. Cummins            | 1     | Bert Goff               | 6-20         | €cr        | --            | --   | --          | 3270   | Pool  | RT      |  |
| 359                  | Gilead        | S 1           | 1640 NL 935 EL | NW       | Dock Oil Prod., Inc.     | 1     | H. & A. Garverick       | 1-14         | €cr        | --            | --   | --          | 3278   | Pool  | RT      |  |
| 360                  | Gilead        | S 2-E         | 75 SL 180 WL   | NE       | K. D. Brown; Ideal Dlg.  | 1     | Village of Mt. Gilead   | 1-27         | €cr        | --            | --   | --          | 3242   | Pool  | RT      |  |
| 362                  | Gilead        | S 2-E         | 496 SL 1092 WL | NE       | Patrick Pet. Co.         | 1     | C. Hardin               | 2-18         | €cr        | --            | --   | --          | 3296   | Pool  | RT      |  |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                  | Lease | Date Comp.              | Deepest Unit | Type Comp. | Initial Prod. MCFGPD | BOPD | Total Depth | Class. | Tools | Remarks            |
|----------------------|------------|---------------|-----------------|----------|---------------------------|-------|-------------------------|--------------|------------|----------------------|------|-------------|--------|-------|--------------------|
| MORROW COUNTY (con.) |            |               |                 |          |                           |       |                         |              |            |                      |      |             |        |       |                    |
| 364                  | Cardington | S 14          | 633 SL 1124 EL  | SW       | Petrol Servicing, Inc.    | 1     | L. & M. Kaelber         | 2-18         | Cr         | --                   | --   | 3157        | Pool   | RT    |                    |
| 365                  | Cardington | S 23          | 1053 SL 622 WL  | NW       | Petrol Servicing, Inc.    | 1     | C. J. Coomer            | 1-28         | Cr         | Acid                 | --   | 220         | Pool   | CT    |                    |
| 366                  | Gilead     | S 6           | 1350 SL 1000 WL | SW       | Thurlo Weed               | 1     | C. B. Ewers             |              |            |                      |      |             | Out    | CT    | Canceled           |
| 367                  | Gilead     | S 1           | 550 SL 650 EL   | NW       | Thurlo Weed               | 1     | Herbert Shaffer         |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 369                  | Gilead     | S 3           | 530 SL 100 EL   | NE       | Hobson Oil Co.            | 1     | K. & M. Mansfield       | 1-22         | Cr         | Acid                 | --   | 120         | Pool   | CT    |                    |
| 370                  | Gilead     | S 14          | 659 SL 221 WL   | NE       | Hobson Oil Co.            | 1     | W. Turner               | 2-25         | Cr         | Acid                 | --   | 120         | Out    | CT    |                    |
| 371                  | Gilead     | S 1           | 100 SL 260 WL   | NW       | Hobson Oil Co.            | 1     | Robert Shaffer          |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 372                  | Cardington | S 23          | 950 SL 200 WL   | NW       | Hobson Oil Co.            | 2     | J. & R. Patterson       | 1963?        | Cr         | Acid                 | --   | 600         | Pool   | CT    |                    |
| 373                  | Cardington | S 22          | 300 NL 1110 EL  | SE       | Hobson Oil Co.            | 1     | Edward Dean             | 3-17         | Cr         | --                   | --   | 3135        | Pool   | CT    |                    |
| 374                  | Gilead     | S 34          | 650 NL 33 WL    | SW       | Hobson Oil Co.            | 1     | Darling Unit            |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 375                  | Gilead     | S 14          | 1730 SL 20 WL   | NW       | Hobson Oil Co.            | 1     | Chester George          | 1-30         | Cr         | --                   | --   | 3316        | Pool   | CT    |                    |
| 376                  | Gilead     | S 34          | 855 SL 99 WL    | NW       | Hobson Oil Co.            | 1     | M. & G. Sharrock        |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 377                  | Gilead     | S 35-W        | 200 NL 200 EL   | SE       | Hobson Oil Co.            | 1     | Fraley Unit             | 4-24         | Cr         | --                   | --   | 3236        | Pool   | CT    |                    |
| 379                  | Gilead     | S 34          | 300 NL 1184 WL  | SW       | Thurlo Weed               | 1     | Stella George           |              |            |                      |      |             | Pool   | RT    | Replaced by P-1438 |
| 380                  | Gilead     | S 3           | 0 NL 350 WL     | NW       | Thurlo Weed               | 1     | R. & M. Evans           |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 381                  | Gilead     | S 34          | 530 SL 500 WL   | SW       | Thurlo Weed               | 1     | Howard Jones            |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 382                  | Gilead     | S 34          | 1045 SL 330 WL  | SW       | Thurlo Weed               | 1     | Elizabeth McCarty       |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 383                  | Gilead     | S 34          | 680 SL 300 WL   | SW       | Thurlo Weed               | 2     | Elizabeth McCarty       |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 384                  | Gilead     | S 2-W         | 376 SL 764 EL   | NE       | Mitchell & Donalson       | 1     | Grace Lemley            | 3-30         | Cr         | --                   | --   | 3361        | Pool   | CT    |                    |
| 385                  | Gilead     | S 35-E        | 243 SL 925 WL   | SW       | Jack Hobson               | 1     | Geo. Strait Constr. Co. | 2-22         | Cr         | --                   | --   | 3214        | Pool   | CT    |                    |
| 386                  | Gilead     | S 35-E        | 243 SL 200 WL   | SW       | Jack Hobson               | 2     | Geo. Strait Constr. Co. |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 387                  | Gilead     | S 34          | 1000 NL 100 WL  | NW       | Hobson Oil Co.            | 1     | C. & S. Osborn          |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 388                  | Gilead     | S 35          | 130 SL 30 EL    | SW       | Hobson Oil Co.            | 1     | G. H. Smith             |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 389                  | Gilead     | S 34          | 766 NL 1236 WL  | SW       | Thurlo Weed               | 1     | E. & B. Showalter       |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 390                  | Cardington | S 23          | 1400 NL 970 WL  | SW       | Kemmerly-Loffland-Basore  | 1     | Smith                   |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 391                  | Cardington | S 23          | 510 NL 740 EL   | NE       | Kemmerly-Loffland-Basore  | 1     | R. & H. Zinn            | 1-17         | Cr         | --                   | --   | 3193        | Pool   | CT    |                    |
| 392                  | Gilead     | S 2           | 2110 NL 520 EL  | NE       | Kemmerly-Loffland-Basore  | 1     | Duncan-Kingman-Crow     |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 393                  | Cardington | S 23          | 980 NL 970 WL   | NW       | Fulk, Jr. & Schwetz       | 1     | E. & A. Kinsell         | 1-9          | Cr         | Acid                 | --   | 400         | Pool   | RT    |                    |
| 394                  | Cardington | S 23          | 1250 NL 1420 EL | NE       | Fulk, Jr. & Schwetz       | 2     | Sansotta Co.            | 1963         | Cr         | Acid                 | --   | 400         | Pool   | RT    |                    |
| 395                  | Bennington | L 30 (1Q)     | 700 NL 1125 EL  |          | Howard D. Atha            | 1     | Walter Fishburn         | 1-3          | Cr         | Acid                 | --   | 40          | Pool   | RT    |                    |
| 396                  | Gilead     | S 2           | 860 SL 360 EL   | NW       | J. Holtz; J. M. Loffland  | 1     | Anita Rood              |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 397                  | Cardington | S 14          | 1310 NL 451 EL  | SE       | Petrol Servicing, Inc.    | 1     | L. & N. Philbrook       | 5-20         | Cr         | Acid                 | --   | 274         | Pool   | CT    |                    |
| 398                  | Gilead     | S 3           | 820 SL 1200 WL  |          | Jenkins Engineering       | 1     | Hospital Unit           | 3-22         | Cr         | --                   | --   | 3232        | Pool   | CT    | Canceled           |
| 399                  | Gilead     | S 3           | 1342 SL 534 WL  | NE       | Jenkins Engineering       | 2     | Hospital Unit           |              |            |                      |      |             | Pool   | RT    | Canceled           |
| 400                  | Cardington | S 22          | 1405 NL 572 EL  | SE       | H. H. Denton              | 1     | A. E. Denton            |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 401                  | Cardington | L 8           | 100 SL 100 EL   |          | H. H. Denton              | 1     | Lowell Murphy           |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 402                  | Cardington | L 10          | 585 NL 524 WL   |          | H. H. Denton              | 1     | L. & M. McClintock      |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 403                  | Cardington | L 9           | 905 SL 516 WL   |          | Ridge Oil Co. (H. Denton) | 1     | Raymond Heacock         |              |            |                      |      |             | Pool   | CT    | Canceled           |
| 404                  | Cardington | S 27          | 115 NL 1405 EL  |          | H. H. Denton              | 1     | J. Arndt                | 8-4          | Cr         | --                   | --   | 3190        | Pool   | RT    |                    |
| 405                  | Gilead     | S 2           | 331 SL 486 EL   | NW       | H. H. Denton              | 1     | C. & H. Babcock         |              |            |                      |      |             | Pool   | CT    | Canceled           |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                   | Lease | Date Comp.               | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks  |
|----------------------|------------|---------------|-----------------|----------|----------------------------|-------|--------------------------|--------------|------------|---------------|------|-------------|--------|-------|----------|
|                      |            |               |                 |          |                            |       |                          |              |            | MCFGPD        | BOPD |             |        |       |          |
| MORROW COUNTY (con.) |            |               |                 |          |                            |       |                          |              |            |               |      |             |        |       |          |
| 406                  | Gilead     | S 2-W         | 83 NL 710 EL    | NE       | Thurlow Weed               | 1     | Koehring Co. (Hydraulic) |              |            |               |      |             |        | RT    | Canceled |
| 407                  | Gilead     | S 34          | 570 SL 297 WL   | SW       | J. N. Weakley              | 1     | Fred Smith               | 1-20         | €cr        | Acid          | --   | 3142        | Pool   | RT    |          |
| 408                  | Gilead     | S 1           | 54 NL 1823 WL   | NW       | M-D Corp.; Dock Oil        | 1     | Arthur Irons             |              |            |               |      |             | Pool   | RT    | Canceled |
| 409                  | Gilead     | S 35          | 181 SL 156 EL   | SE       | Mid-Ohio O. & G. Devel.    | 2     | Village of Edison        |              |            |               |      |             | Pool   | RT    | Canceled |
| 410                  | Gilead     | S 34          | 1760 NL 243 WL  | NW       | Mid-Ohio O. & G. Devel.    | 3     | Village of Edison        |              |            |               |      |             | Pool   | RT    | Canceled |
| 411                  | Washington | S 23          | 330 SL 600 WL   | SE       | Kuyperco Oil Corp.         | 1     | Cliffshire Estates       | 2-15         | €cr        | --            | --   | 3358        | FWC    | RT    |          |
| 412                  | Gilead     | S 15-S        | 600 SL 1159 WL  | SW       | Bill D. Vaught             | 2     | J. & J. Auld             | 2-25         | €cr        | --            | --   | 3177        | Pool   | CT    |          |
| 413                  | Cardington | L 8           | 300 SL 370 WL   |          | Jean Hisgen                | 1     | Samuel Eastep            |              |            |               |      |             | Pool   | CT    | Canceled |
| 414                  | Lincoln    | L 25 (3Q)     | 850 NL 1040 WL  |          | Jean Hisgen                | 1     | R. Peak                  | 6-2          | €cr        | --            | --   | 3335        | Out    | RT    |          |
| 415                  | Gilead     | S 14          | 644 SL 546 WL   | SW       | H. F. Faust                | 1     | Charles Burns            |              |            |               |      |             | Pool   | CT    | Canceled |
| 416                  | Gilead     | S 11          | 1065 NL 1505 EL | NE       | B. M. Hastings             | 1     | P. L. Mills              |              |            |               |      |             | Pool   | CT    | Canceled |
| 417                  | Gilead     | S 36          | 70 SL 346 WL    | SW       | D. M. Ruhl                 | 1     | D. M. Ruhl               | 3-30         | €cr        | --            | --   | 3350        | Pool   | RT    |          |
| 418                  | Gilead     | S 36          | 1391 NL 900 WL  | SW       | K. D. Brown                | 1     | Gatchell-Clapper         | 2-26         | €cr        | --            | --   | 3342        | Pool   | CT    |          |
| 419                  | Gilead     | S 2-W         | 2396 NL 675 WL  | NE       | Investment Oil Co.         | 1     | N. Y. C. R. R. Co.       | 4-7          | €cr        | Acid          | --   | 3100        | Pool   | RT    |          |
| 420                  | Gilead     | S 2           | 1100 NL 1320 EL | NE       | Investment Oil Co.         | 2     | N. Y. C. R. R. Co.       |              |            |               |      |             | Pool   | RT    | Canceled |
| 421                  | Gilead     | S 35          | 292 SL 263 EL   | SE       | Kuyperco Oil Corp.         | 1     | William Gledhill         |              |            |               |      |             | Pool   | RT    | Canceled |
| 422                  | Gilead     | S 7           | 1240 SL 570 WL  | SW       | Barron Oil Co.             | 1     | D. A. Conkle             | 3-15         | €cr        | --            | --   | 3487        | Pool   | RT    |          |
| 423                  | Gilead     | S 3           | 790 NL 500 WL   | NE       | Barron Oil Co.             | 1     | Dorothea Graham          | 1-15         | €cr        | --            | --   | 3235        | Pool   | RT    |          |
| 424                  | Gilead     | S 3           | 1420 NL 350 EL  | NW       | K. D. Brown                | 1     | Frayer-Spencer           | 2-29         | €cr        | --            | --   | 3170        | Pool   | CT    |          |
| 425                  | Gilead     | S 12          | 753 NL 720 EL   | SE       | Barron Oil Co.             | 1     | M. Dumbaugh              |              |            |               |      |             | Pool   | RT    | Canceled |
| 426                  | Gilead     | S 7           | 500 SL 150 WL   | NE       | Barron Oil Co.             | 1     | W. D. Harner             | 2-14         | €cr        | --            | --   | 3536        | Pool   | RT    |          |
| 427                  | Lincoln    | L 16 (3Q)     | 612 NL 986 EL   |          | Tri-State Oil Co.          | 1     | W. & D. Burns            | 2-8          | €cr        | --            | --   | 3585        | Pool   | CT    |          |
| 428                  | Gilead     | S 23          | 90 NL 70 EL     | NE       | Pilgrim O. & G. Co.        | 1     | C. & G. Shaffer          | 1-16         | €cr        | Acid          | --   | 160         | 3360   | Pool  | RT       |
| 429                  | Gilead     | S 12          | 993 NL 88 WL    | NW       | Keillor & Clark            | 1     | F. D. Snyder             | 4-24         | €cr        | --            | --   | 3312        | Pool   | CT    |          |
| 430                  | Cardington | L 7-E         | 830 SL 400 WL   |          | Jenkins Engineering        | 1     | Benson Unit              | 4-25         | €cr        | --            | --   | 3130        | Pool   | CT    |          |
| 431                  | Cardington | S 21          | 912 NL 1344 EL  | SE       | Jenkins Engineering        | 1     | W. Lawhead               | 3-17         | €cr        | --            | --   | 3079        | Pool   | CT    |          |
| 432                  | Gilead     | S 3           | 380 NL 660 WL   | NE       | Jerry D. Black             | 1     | John Jagers              | 3-11         | €cr        | --            | --   | 3217        | Pool   | CT    |          |
| 434                  | Gilead     | S 11          | 1633 NL 655 WL  | NE       | N. A. Trexler              | 1     | Rodger Van Houten        |              |            |               |      |             | Pool   | CT    | Canceled |
| 435                  | Gilead     | S 26          | 1007 SL 330 EL  | NE       | Royal O. & G.; Irvin Prod. | 1     | R. & M. Barler           | 1-15         | €cr        | --            | --   | 3600        | Out    | CT    |          |
| 437                  | Gilead     | S 12          | 330 SL 330 EL   | SE       | Southern Triangle Oil      | 1     | M. Smith                 | 1-19         | €cr        | --            | --   | 3462        | Pool   | RT    |          |
| 438                  | Gilead     | S 2           | 57 SL 602 EL    | NE       | Mammoth Prod. Co.          | 2     | Chester Galleher         | 1963         | €cr        | Acid          | --   | 150         | 3218   | Pool  | RT       |
| 439                  | Gilead     | S 2           | 208 NL 740 EL   | SE       | Mammoth Prod. Co.          | 3     | Chester Galleher         |              |            |               |      |             | Pool   | RT    | Canceled |
| 440                  | Gilead     | S 2           | 205 NL 846 EL   | SE       | Mammoth Prod. Co.          | 4     | Chester Galleher         |              |            |               |      |             | Pool   | RT    | Canceled |
| 442                  | Gilead     | S 3           | 26 NL 1187 WL   | NW       | Howard Long                | 1     | Howard Long              |              |            |               |      |             | Pool   | RT    | Canceled |
| 443                  | Gilead     | S 2-E         | 774 SL 769 WL   | NE       | Prospectors, Inc.          | 1     | Howard-Sims              |              |            |               |      |             | Pool   | RT    | Canceled |
| 444                  | Gilead     | S 34          | 610 SL 498 WL   | SW       | Henry Bailey               | 1     | M. & H. Bailey           |              |            |               |      |             | Pool   | RT    | Canceled |
| 445                  | Gilead     | S 36          | 839 NL 1425 EL  |          | Masters Oil Co.            | 1     | H. W. Fraizer            |              |            |               |      |             | Out    | CT    | Canceled |
| 446                  | Cardington | S 23          | 502 NL 1250 EL  | NE       | Perry Fulk, Sr.            | 1-A   | Joseph Sansotta          | 1963         | €cr        | Acid          | --   | 175         | 3102   | Pool  | RT       |
| 447                  | Lincoln    | L 39 (1Q)     | 100 SL 1075 WL  |          | Perry Fulk, Sr.            | 2     | L. & D. Ruehrmund        |              |            |               |      |             | Pool   | RT    | Canceled |
| 448                  | Cardington | S 23          | 627 NL 1850 EL  | NE       | Fulk, Jr. & Schwetz        | 1-B   | Joseph Sansotta          |              |            |               |      |             | Pool   | RT    | Canceled |
| 449                  | Cardington | S 22          | 77 NL 871 EL    | SE       | Perry Fulk, Sr.            | 1     | R. & E. Baker            | 1963         | €cr        | Acid          | --   | 200         | 3086   | Pool  | CT       |
| 450                  | Gilead     | S 2-W         | 277 NL 554 EL   | NE       | Mid-Ohio O. & G. Devel.    | 5     | Village of Edison        |              |            |               |      |             | Pool   | RT    | Canceled |
| 451                  | Gilead     | S 34          | 1480 NL 165 WL  | SE       | Mid-Ohio O. & G. Devel.    | 6     | Village of Edison        |              |            |               |      |             | Pool   | RT    | Canceled |
| 452                  | Gilead     | S 2-E         | 482 SL 390 EL   | NW       | J. H. Cassidy              | 1     | Clara Peoples            | 1-11         | €cr        | --            | --   | 3300        | Pool   | RT    |          |
| 453                  | Lincoln    | L 33 (1Q)     | 30 SL 1060 EL   |          | Jenkins Engineering        | 3     | Virgil Denton            | 2-22         | €cr        | --            | --   | 3282        | Out    | CT    |          |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                   | Lease | Date Comp.              | Deepest Unit | Type Comp. | Initial Prod. MCFGPD | BOPD | Total Depth | Class. | Tools | Remarks |
|----------------------|------------|---------------|-----------------|----------|----------------------------|-------|-------------------------|--------------|------------|----------------------|------|-------------|--------|-------|---------|
| MORROW COUNTY (con.) |            |               |                 |          |                            |       |                         |              |            |                      |      |             |        |       |         |
| 455                  | Cardington | S 3           | 644 NL 330 EL   | SE       | Perry Fulk, Sr.            | 3     | R. P. Wertz             | 1963         | €cr        | Acid                 | --   | 450         | 3048   | Pool  | RT      |
| 456                  | Franklin   | L 1 (4Q)      | 330 NL 520 EL   |          | Louis Lottie & Assoc.      | 1     | L. & G. Simmons         | 1-4          | €cr        | --                   | --   | 4162        | Out    | RT    |         |
| 457                  | Cardington | S 23          | 635 NL 1022 EL  | NE       | Pilgrim O. & G. Co.        | 1     | Harry Smith             | 1963         | €cr        | --                   | --   | 300         | 3159   | Pool  | RT      |
| 458                  | Bennington | L 4 (2Q)      | 284 SL 552 WL   |          | Killbuck Dlg. Co.          | 1     | L. & J. Davis           |              |            |                      |      |             |        | Pool  | CT      |
| 459                  | Lincoln    | L 9 (4Q)      | 330 SL 330 EL   |          | Piedmont Oil Co.           | 1     | T. C. Williamson        | 4-1          | €cr        | --                   | --   | --          | 3220   | Pool  | CT      |
| 460                  | Cardington | S 14          | 1450 SL 300 EL  | SW       | H. Floyd Faust             | 2     | L. Jones                |              |            |                      |      |             |        | Pool  | CT      |
| 461                  | Gilead     | S 3           | 725 NL 60 EL    | NW       | Carl A. Fisher             | 1     | C. A. Fisher            |              |            |                      |      |             |        | Pool  | CT      |
| 462                  | Gilead     | S 14          | 245 NL 715 EL   | SW       | Ridge Oil Co.              | 1     | C. W. Todd              | 2-13         | €cr        | --                   | --   | --          | 3324   | Out   | CT      |
| 463                  | Cardington | S 22          | 840 NL 250 EL   | SE       | Ridge Oil Co.              | 1     | Pearl Showalter         | 2-12         | €cr        | Acid                 | --   | 23          | 3094   | Pool  | CT      |
| 464                  | Gilead     | S 14          | 100 NL 100 EL   | SW       | Ridge Oil Co.              | 2     | C. W. Todd              |              |            |                      |      |             |        | Pool  | CT      |
| 466                  | Gilead     | S 1           | 415 SL 405 WL   | NE       | D. Terry                   | 1     | Thelma Terry            | 3-30         | €cr        | --                   | --   | --          | 3400   | Pool  | CT      |
| 467                  | Lincoln    | L 1 (1Q)      | 600 NL 325 EL   |          | Gibson Excavating Co.      | 1     | Francis Patton          | 1-2          | €cr        | --                   | --   | --          | 3350   | Out   | RT      |
| 468                  | Gilead     | S 18          | 680 SL 1120 EL  | NE       | Howard D. Atha             | 1     | Lyons & Pierce          | 2-29         | €cr        | --                   | --   | --          | 3487   | Out   | CT      |
| 469                  | Gilead     | S 7           | 660 SL 660 EL   | NW       | Howard D. Atha             | 1     | J. & M. Cole            | 3-30         | €cr        | --                   | --   | --          | 3510   | Pool  | CT      |
| 470                  | Gilead     | S 18          | 660 SL 660 EL   | SW       | Howard D. Atha             | 1     | W. J. Burns             | 2-12         | €cr        | --                   | --   | --          | 3405   | Pool  | CT      |
| 471                  | Cardington | S 23          | 860 NL 1720 EL  | NE       | Fulk, Jr. & Schwetz        | 3     | J. Sansotta             | 1-7          | €cr        | Acid                 | --   | 500         | 3122   | Pool  | RT      |
| 472                  | Franklin   | L 19 (3Q)     | 480 NL 610 EL   |          | Tri-State Prod. Co.        | 1     | Morrow Co. Co-op.       | 4-8          | €cr        | Acid                 | 2500 | 5           | 3749   | FWC   | CT      |
| 473                  | Gilead     | S 3           | 1000 NL 600 EL  | NW       | Ideal Dlg. Co.             | A-1   | E. T. Snyder            | 2-8          | €cr        | --                   | --   | --          | 3165   | Pool  | RT      |
| 474                  | Gilead     | S 3           | 1500 SL 600 EL  | NW       | Ideal Dlg. Co.             | A-2   | E. T. Snyder            | 6-29         | €cr        | --                   | --   | --          | 3199   | Pool  | RT      |
| 475                  | Gilead     | S 15          | 50 SL 248 WL    | SW       | Pilgrim Oil Co.            | 1     | H. & N. Smith           |              |            |                      |      |             |        | Pool  | RT      |
| 476                  | Peru       | L 14 (1Q)     | 500 NL 190 EL   |          | Bill D. Vaught             | 1-A   | W. & A. Votaw           | 3-4          | €cr        | --                   | --   | --          | 3190   | Pool  | RT      |
| 477                  | Peru       | L 13 (1Q)     | 1123 SL 995 EL  |          | Bill D. Vaught             | 1     | R. & A. Adams           |              |            |                      |      |             |        | Pool  | RT      |
| 478                  | Cardington | S 23          | 287 SL 80 WL    | NW       | M. G. Curtis               | 1     | W. H. Kreis             | 1-29         | €cr        | Acid                 | --   | 160         | 3068   | Pool  | CT      |
| 479                  | Gilead     | S 26-E        | 1200 NL 200 EL  | NE       | Jenkins Engineering        | 1     | E. Castle               |              |            |                      |      |             |        | Pool  | CT      |
| 480                  | Lincoln    | L 21 (1Q)     | 825 NL 1350 WL  |          | Moore; Lake Shore Pipeline | C-1   | L. J. Smith             | 3-15         | €cr        | Acid                 | --   | 300         | 3193   | Pool  | RT      |
| 481                  | Harmony    | L 26 (4Q)     | 330 SL 330 WL   |          | Don Baines Dlg. Co.        | 1     | D. Hildebrand           | 1-11         | €cr        | --                   | --   | --          | 3676   | Out   | RT      |
| 482                  | Gilead     | S 2-E         | 940 NL 120 EL   | SW       | Southern Triangle Oil      | 3     | Morrow Co. Fairgrnds.   | 3-20         | €cr        | --                   | --   | --          | 3221   | Pool  | RT      |
| 483                  | Gilead     | S 13          | 348 SL 120 EL   | NW       | Mammoth Prod. Co.          | 1     | Cuy Kendall & Dewey     | 4-4          | €cr        | Acid                 | --   | 125         | 3371   | Pool  | CT      |
| 484                  | Gilead     | S 3           | 27 NL 815 EL    | NE       | Troy Devel. Co.            | 1     | R. & F. Franks          |              |            |                      |      |             |        | Pool  | RT      |
| 485                  | Gilead     | S 3           | 187 NL 815 EL   | NE       | Troy Devel. Co.            | 1     | J. & B. Lyons           | 2-6          | €cr        | Acid                 | --   | --          | 3230   | Pool  | RT      |
| 486                  | Gilead     | S 15          | 566 SL 300 WL   | SE       | Don Baines Dlg. Co.        | 1     | J. E. Lewis             | 1963         | €cr        | Acid                 | --   | 450         | 3226   | Pool  | RT      |
| 487                  | Cardington | L 20          | 920 NL 1170 WL  |          | R. E. McDowell             | 1     | Carl Ruehrmund          |              |            |                      |      |             |        | Pool  | RT      |
| 488                  | Gilead     | S 6           | 750 SL 411 EL   | NW       | Grim Bros. Dlg. Co.        | 1     | C. & A. Smith           | 3-5          | €cr        | --                   | --   | --          | 3488   | Pool  | CT      |
| 489                  | Gilead     | S 2-E         | 595 SL 615 EL   | NE       | Prospectors, Inc.          | 1     | Melvin Sharrock         |              |            |                      |      |             |        | Pool  | CT      |
| 490                  | Gilead     | S 3           | 845 SL 386 EL   | NE       | Dale Kirkconnell           | 1     | R. Gandee               | 1-12         | €cr        | Acid                 | --   | 600         | 3205   | Pool  | RT      |
| 491                  | Gilead     | S 3           | 182 SL 423 EL   | NE       | Dale Kirkconnell           | 2     | R. Gandee               | 3-17         | €cr        | --                   | --   | --          | 3301   | Pool  | RT      |
| 492                  | Gilead     | S 2           | 706 SL 474 WL   | NE       | Patrick Pet. Co.           | 1     | Duty-Arnold-Neptune     |              |            |                      |      |             |        | Pool  | RT      |
| 493                  | Gilead     | S 3           | 600 NL 1268 EL  | NE       | Patrick Pet. Co.           | 1     | D. & R. Kirk            | 2-4          | €cr        | --                   | --   | --          | 3227   | Pool  | RT      |
| 494                  | Gilead     | S 2-W         | 690 NL 53 EL    | NE       | Mid-Ohio O. & G. Devel.    | 1     | George Woodson          |              |            |                      |      |             |        | Pool  | RT      |
| 495                  | Gilead     | S 3           | 1113 NL 1116 EL | NE       | Victor Bannister           | 1     | L. C. Dye               | 4-19         | €cr        | Acid                 | --   | --          | 3228   | Pool  | RT      |
| 496                  | Gilead     | S 3           | 407 NL 829 EL   | NE       | Dalton Dlg. Co.            | 1     | Mt. Gilead Shortline RR | 1-21         | €cr        | Nat?                 | --   | 80          | 3285   | Pool  | RT      |
| 497                  | Gilead     | S 2-E         | 817 SL 821 WL   | NW       | Dee Oil Co.                | 1     | K. Randall              | 4-28         | €cr        | --                   | --   | --          | 3246   | Pool  | RT      |
| 498                  | Cardington | S 11          | 1600 SL 516 EL  | SE       | Don Baines Dlg. Co.        | 1     | M. E. Shaffer           | 2-27         | €cr        | --                   | --   | --          | 3170   | Pool  | RT      |
| 499                  | Cardington | S 10          | 250 NL 250 WL   | NW       | Don Baines Dlg. Co.        | 1     | A. W. Smith             | 1-17         | €cr        | --                   | --   | --          | 3058   | Pool  | RT      |
| 500                  | Bennington | L 24 (3Q)     | 250 NL 1350 EL  |          | Don Baines Dlg. Co.        | 1     | Clayton Fisher          | 1-17         | €cr        | Acid                 | 3510 | --          | 3502   | Pool  | RT      |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                | Lease | Date Comp.           | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|------------|---------------|-----------------|----------|-------------------------|-------|----------------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |            |               |                 |          |                         |       |                      |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |            |               |                 |          |                         |       |                      |              |            |               |      |             |        |       |                    |
| 501                  | Cardington | S 19          | 2100 SL 330 EL  | SE       | Ashland O. & R. Co.     | 1     | Carl Ruehrmund       | 2-24         | €cr        | --            | --   | 3040        | FWC    | RT    |                    |
| 502                  | Cardington | S 23          | 1200 SL 960 WL  | NW       | Howard D. Atha          | 1     | V. & H. Pietranglo   | 1-23         | €cr        | Acid          | --   | 90          | Pool   | RT    |                    |
| 503                  | Gilead     | S 2-W         | 1476 SL 376 EL  | NE       | Patrick Pet. Co.        | 3     | Board of Education   | 1-4          | €cr        | Acid          | --   | 360         | Pool   | RT    |                    |
| 504                  | Gilead     | S 2-W         | 1384 SL 65 EL   | NE       | Patrick Pet. Co.        | 4     | Board of Education   |              |            |               |      |             | Pool   | RT    | Canceled           |
| 505                  | Gilead     | S 14          | 788 NL 190 EL   |          | Kuyppo Corp.            | 1     | R. & D. Heacock      |              |            |               |      |             | Pool   | RT    | Canceled           |
| 506                  | Peru       | L 14 (1Q)     | 830 NL 185 EL   |          | Bill D. Vaught          | 2     | W. & A. Votaw        |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 507                  | Cardington | S 20          | 350 SL 391 WL   | NW       | Ashland O. & R. Co.     | 1     | C. & M. Crum         |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 508                  | Cardington | L 4-E (2Q)    | 190 SL 1310 EL  |          | Ralph C. Halbert        | 1     | G. Howard            | 1-23         | €cr        | Acid          | --   | 22          | Pool   | RT    |                    |
| 510                  | Franklin   | S 16          | 171 SL 906 WL   | NW       | Frank O. Cox (Skiles)   | 1     | Harrison Taylor      | 2-16         | €cr        | --            | --   | 3759        | FWC    | CT    |                    |
| 511                  | Westfield  | S 21          | 330 SL 1670 EL  | SW       | W. S. Cole              | 1     | Holy Cross           | 4-4          | €cr        | --            | --   | 3060        | FWC    | CT    |                    |
| 512                  | Gilead     | S 2-W         | 840 NL 1025 EL  | NE       | J. Moore; Kin-Ark Oil   | 1     | Scott-Thomas "B"     | 1963         | €cr        | Acid          | --   | 600         | Pool   | RT    |                    |
| 513                  | Gilead     | S 2-W         | 360 NL 815 EL   | NE       | J. Moore; Kin-Ark Oil   | 2     | Scott-Thomas "B"     |              |            |               |      |             | Pool   | RT    | Canceled           |
| 514                  | Gilead     | S 2-W         | 125 NL 1180 EL  | NE       | J. Moore; Kin-Ark Oil   | 3     | Scott-Thomas "B"     |              |            |               |      |             | Pool   | RT    | Canceled           |
| 515                  | Gilead     | S 31          | 526 SL 424 EL   | SE       | W. H. Patten Dlg.       | 1     | Hugh Kimmey          | 2-3          | €cr        | --            | --   | 3557        | Pool   | CT    |                    |
| 516                  | Cardington | L 20          | 290 NL 1300 WL  |          | Glenwood O. & G. Corp.  | 1     | H. Mock              |              |            |               |      |             | Pool   | RT    | Canceled           |
| 517                  | Cardington | S 22          | 460 NL 1200 WL  | SE       | Glenwood O. & G. Corp.  | 1     | Ira Eads             |              |            |               |      |             | Pool   | RT    | Canceled           |
| 518                  | Cardington | S 22          | 430 NL 60 WL    | SE       | Glenwood O. & G. Corp.  | 1     | K. Mullins           |              |            |               |      |             | Pool   | RT    | Canceled           |
| 519                  | Gilead     | S 32          | 580 SL 860 EL   | SE       | Jack W. Holtz           | 1     | Burson-Stahl         | 1-25         | €cr        | --            | --   | 3689        | NWC    | RT    |                    |
| 520                  | Gilead     | S 3           | 67 NL 756 EL    | SE       | Comanche Oil Co.        | 3     | J. P. Newson         | 1-10         | €cr        | Acid          | --   | 900         | Pool   | RT    |                    |
| 521                  | Canaan     | S 16          | 400 SL 914 EL   |          | Comanche Oil Co.        | 1     | L. G. Bending        | 2-24         | €cr        | --            | --   | 3058        | NWC    | CT    |                    |
| 522                  | Cardington | S 22          | 183 NL 525 EL   | SW       | Hobson Oil Co.          | 1     | Hocker Unit          | 2-16         | €cr        | --            | --   | 3133        | Pool   | CT    |                    |
| 523                  | Gilead     | S 3           | 1200 NL 450 WL  | NW       | J. Moore; Kin-Ark Oil   | 2     | Nina Kincade         |              |            |               |      |             | Pool   | RT    | Replaced by P-1626 |
| 524                  | Gilead     | S 3           | 420 NL 795 EL   | NE       | Investment Oil Co.      | 3     | N. Y. C. R. R. Co.   |              |            |               |      |             | Pool   | RT    | Canceled           |
| 525                  | Gilead     | S 35-E        | 177 SL 1084 WL  | SE       | David Law               | 1     | Marion Newman        |              |            |               |      |             | Pool   | CT    | Canceled           |
| 526                  | Gilead     | S 35-E        | 100 SL 850 WL   | SE       | David Law               | 1     | Milton Staley        |              |            |               |      |             | Pool   | CT    | Canceled           |
| 527                  | Gilead     | S 35-E        | 185 SL 663 WL   | SE       | David Law               | 2     | Milton Staley        |              |            |               |      |             | Pool   | CT    | Canceled           |
| 528                  | Canaan     | S 15          | 660 SL 165 EL   | NW       | David Law               | 1     | H. & K. Morton       |              |            |               |      |             | NWC    | CT    | Canceled           |
| 529                  | Lincoln    | L 33 (2Q)     | 718 SL 310 EL   |          | Gibson Excavating Co.   | 1     | I. & R. Powell       |              |            |               |      |             | Pool   | RT    | Canceled           |
| 530                  | Lincoln    | L 16 (3Q)     | 200 NL 330 WL   |          | Gibson Excavating Co.   | 1     | C. & V. Bennet       |              |            |               |      |             | Pool   | RT    | Canceled           |
| 531                  | Gilead     | S 13          | 1100 NL 1220 EL | NW       | Ashland O. & R. Co.     | 1     | Ira Lawyer           | 1-2          | €cr        | --            | --   | 3568        | Pool   | RT    |                    |
| 532                  | Gilead     | S 23S         | 250 NL 250 WL   | NE       | Gibson Excavating Co.   | 1     | C. L. Howard         |              |            |               |      |             | Pool   | RT    | Canceled           |
| 533                  | Lincoln    | L 25 (3Q)     | 800 NL 950 EL   |          | Gibson Excavating Co.   | 1     | F. & E. Hickman      |              |            |               |      |             | Pool   | RT    | Canceled           |
| 534                  | Gilead     | S 1           | 535 NL 1145 WL  | NW       | Frank Slavik            | 1     | Evans & Swisher      |              |            |               |      |             | Pool   | CT    | Replaced by P-1299 |
| 535                  | Cardington | S 22          | 150 SL 110 EL   | NW       | Louis Ramp (N. Trexler) | 1     | L. E. Clemons        | 5-10         | €cr        | Acid          | --   | 3101        | Pool   | CT    | Oil 4 BPD          |
| 536                  | Cardington | S 22          | 100 NL 140 EL   | SE       | Jerry D. Black          | 1     | A. Jenkins           | 1-18         | €cr        | --            | --   | 40          | Pool   | CT    |                    |
| 537                  | Harmony    | L 3 (2Q)      | 300 SL 1500 WL  |          | Cavalier Oil Co.        | 1     | Edgar Tipton         | 1-8          | €cr        | --            | --   | 3552        | NWC    | RT    |                    |
| 538                  | Gilead     | S 15          | 2046 NL 1560 EL |          | Bill D. Vaught          | 3     | J. & J. Auld         |              |            |               |      |             | Pool   | RT    | Canceled           |
| 539                  | Gilead     | S 35-E        | 671 SL 838 WL   | NE       | John H. Teeters         | 1     | N. & C. Terry        |              |            |               |      |             | Pool   | CT    | Canceled           |
| 540                  | Cardington | S 23          | 330 NL 770 WL   | NE       | Perry Fulk, Sr.         | 2-A   | Sansotta Co.         | 1-18         | €cr        | Acid          | --   | 300         | Pool   | RT    |                    |
| 541                  | Gilead     | S 1           | 646 NL 205 WL   | NW       | Lewis J. Goff           | 1     | Lewis J. Goff        |              |            |               |      |             | Pool   | CT    | Canceled           |
| 542                  | Harmony    | L 16 (2Q)     | 330 SL 1100 WL  |          | Thurlow Weed            | 1     | R. H. Mosher         | 2-7          | €cr        | --            | --   | 3608        | Pool   | CT    |                    |
| 543                  | Lincoln    | L 21 (3Q)     | 990 SL 980 EL   |          | Prospectors, Inc.       | 1     | H. & O. Deel         | 3-7          | €cr        | --            | --   | 3400        | NWC    | CT    |                    |
| 544                  | Canaan     | S 11          | 500 SL 500 WL   | NE       | Capital Oil Co.         | 1     | J. & L. Courtright   | 1-26         | €cr        | --            | --   | 3258        | Out    | CT    |                    |
| 545                  | Westfield  | L 9-N (3Q)    | 700 NL 750 WL   |          | Jenkins Engineering     | 1     | D. & R. McGinnis     | 3-28         | €cr        | --            | --   | 2707        | FWC    | CT    |                    |
| 546                  | Gilead     | S 36          | 285 SL 341 EL   | NE       | J. J. Shumaker          | 1     | Morrow Co. Infirmary |              |            |               |      |             | Pool   | CT    | Canceled           |

LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.              | Lease | Date Comp.          | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks  |
|----------------------|------------|---------------|-----------------|----------|-----------------------|-------|---------------------|--------------|------------|---------------|------|-------------|--------|-------|----------|
|                      |            |               |                 |          |                       |       |                     |              |            | MCFGPD        | BOPD |             |        |       |          |
| MORROW COUNTY (con.) |            |               |                 |          |                       |       |                     |              |            |               |      |             |        |       |          |
| 547                  | Gilead     | S 2           | 1237 SL 1314 EL | NW       | James H. Cassidy      | 1     | J. D. Covert        |              |            |               |      |             |        |       | Canceled |
| 548                  | Canaan     | S 34          | 300 SL 50 EL    | SE       | Perry Fulk, Sr.       | 1     | Whitney-Jolley-Olds | 1-16         | €cr        | Acid          | --   | 350         | 3193   | Pool  | RT       |
| 549                  | Cardington | S 23          | 1750 NL 1088 WL | SW       | Perry Fulk, Sr.       | 1     | Bowman-Schaffer     | 2-26         | €cr        | --            | --   | --          | 3170   | Pool  | RT       |
| 550                  | Cardington | S 23          | 47 SL 780 WL    | SW       | Perry Fulk, Sr.       | 1     | Ault-Bonner         |              |            |               |      |             |        | Pool  | RT       |
| 551                  | Bennington | L 12 (2Q)     | 500 SL 2780 EL  |          | Clinton Oil Co.       | 1     | C. & A. Beaver      | 1-31         | €cr        | --            | --   | --          | 3381   | Out   | CT       |
| 552                  | Gilead     | S 3           | 729 SL 1005 WL  | SW       | Comanche Oil Co.      | 1-C   | R. L. Sipe          | 1-18         | €cr        | --            | --   | --          | 3304   | Pool  | RT       |
| 553                  | Lincoln    | L 23 (1Q)     | 1290 NL 1380 EL |          | Robert E. Semmler     | 2     | W. & I. Snider      | 2-5          | €cr        | Acid          | --   | 150         | 3235   | Pool  | RT       |
| 554                  | Lincoln    | L 2 (2Q)      | 1193 SL 1973 EL |          | Kin-Ark Oil Co.       | 1     | C. & R. Thompson    | 1-7          | €cr        | --            | --   | --          | 3232   | Out   | RT       |
| 555                  | Cardington | S 22          | 495 NL 995 EL   | SE       | Perry Fulk, Sr.       | 2     | R. & E. Baker       | 1-13         | €cr        | Acid          | --   | 60          | 3176   | Pool  | RT       |
| 556                  | Harmony    | L 13 (3Q)     | 600 NL 1300 WL  |          | Hobson Oil Co.        | 1     | R. Wilson           | 2-29         | €cr        | Acid          | --   | 400         | 3435   | NWC   | CT       |
| 557                  | Franklin   | L 2 (4Q)      | 200 SL 296 EL   |          | Don Baines Dlg. Co.   | 1     | R. F. Burson        |              |            |               |      |             |        | Out   | RT       |
| 558                  | Gilead     | S 14          | 82 SL 1288 EL   | NW       | Don Baines Dlg. Co.   | 1     | Ethel Nunamaker     | 2-15         | €cr        | --            | --   | --          | 3330   | Pool  | RT       |
| 559                  | Lincoln    | L 4 (1Q)      | 260 SL 1580 WL  |          | Patrick Pet. Co.      | 2     | A. & F. Burr        | 1-30         | €cr        | --            | --   | --          | 3255   | Pool  | CT       |
| 560                  | Gilead     | S 2           | 237 SL 914 EL   | NE       | James H. Cassidy      | 1     | C. & C. Heimlich    |              |            |               |      |             |        | Pool  | CT       |
| 561                  | Gilead     | S 14          | 60 SL 103 WL    | SE       | James H. Cassidy      | 1     | C. & H. Herchner    | 3-2          | €cr        | --            | --   | --          | 3322   | Pool  | CT       |
| 562                  | Gilead     | S 3           | 85 SL 350 EL    | NW       | R. Leighton;K. Brown  | 1     | Spencer-Frayer      | 5-19         | €cr        | Acid          | --   | 85          | 3180   | Pool  | CT       |
| 563                  | Gilead     | S 36          | 1260 SL 1090 EL | SW       | R. Leighton;K. Brown  | 2     | H. & G. Clapper     | 1-20         | €cr        | --            | --   | --          | 3342   | Pool  | CT       |
| 564                  | Gilead     | S 3           | 812 NL 720 WL   | NE       | Patrick Petroleum Co. | 1     | W. & V. Bennett     |              |            |               |      |             |        | Pool  | RT       |
| 565                  | Cardington | S 3           | 840 SL 2250 EL  | SE       | Ashland O. & R. Co.   | 1     | R. Wuertz           | 1-2          | €cr        | --            | --   | --          | 3264   | Pool  | RT       |
| 566                  | Gilead     | S 13          | 1110 SL 910 EL  | NW       | Ashland O. & R. Co.   | 2     | Ira Lawyer          |              |            |               |      |             |        | Pool  | RT       |
| 567                  | Cardington | S 22          | 100 NL 530 EL   | SE       | Gibbs Oil Co.         | 1     | Vaughn Cole         | 1-18         | €cr        | Acid          | --   | 200         | 3115   | Pool  | RT       |
| 568                  | Franklin   | S 9           | 725 NL 500 WL   | NE       | Keillor & Clark       | 1     | E. & T. Smith       | 2-28         | €cr        | --            | --   | --          | 3822   | FWC   | CT       |
| 569                  | Cardington | S 23          | 507 NL 1052 EL  | NE       | Pilgrim Oil Co.       | 3     | H. & N. Smith       | 1-16         | €cr        | Acid          | --   | 200         | 3161   | Pool  | RT       |
| 570                  | Gilead     | S 2           | 570 SL 760 EL   | NE       | Pilgrim Oil Co.       | 1     | Judith Long         |              |            |               |      |             |        | Pool  | RT       |
| 571                  | Westfield  | S 21          | 660 SL 770 EL   | SE       | Westman Oil Co.       | 1     | J. Henry            | 3-4          | €cr        | --            | --   | --          | 2882   | FWC   | CT       |
| 572                  | Cardington | L 19          | 330 NL 387 EL   |          | Shriver-Roper Oil Co. | 1     | Betty Rose          | 2-25         | €cr        | --            | --   | --          | 3140   | Pool  | CT       |
| 573                  | Harmony    | S 1           | 465 NL 195 EL   | SE       | Frank O. Cox          | 1     | N. & M. Ault        |              |            |               |      |             |        | FWC   | CT       |
| 574                  | Chester    | L 3 (2Q)      | 1525 NL 150 WL  |          | Frank O. Cox          | 1     | N. & M. Ault        |              |            |               |      |             |        | FWC   | CT       |
| 575                  | Cardington | S 22          | 800 SL 1067 EL  | SE       | W. H. Patten Dlg.     | 1     | D. Crawford         | 2-18         | €cr        | --            | --   | --          | 3139   | Pool  | CT       |
| 576                  | Gilead     | S 35          | 344 SL 386 EL   | SE       | M. M. Wilson          | 1     | W. L. Old           |              |            |               |      |             |        | Pool  | RT       |
| 577                  | Cardington | S 23          | 212 SL 550 WL   | NW       | Ashland O. & R. Co.   | 1     | Frank Patterson     | 1-16         | €cr        | Acid          | --   | 480         | 3238   | Pool  | RT       |
| 578                  | Cardington | S 22          | 670 NL 1380 EL  | NE       | Ashland O. & R. Co.   | 1     | V. G. Ullom         | 1-20         | €cr        | Acid          | --   | 320         | 3200   | Pool  | RT       |
| 579                  | Canaan     | S 33          | 1575 SL 375 WL  | SW       | Ashland O. & R. Co.   | 1     | R. & M. Hess        | 2-11         | €cr        | Acid          | --   | 26          | 3147   | Pool  | RT       |
| 580                  | Cardington | S 3           | 2430 NL 330 EL  | NE       | Ashland O. & R. Co.   | 2     | H. Click            | 3-7          | €cr        | --            | --   | --          | 3268   | Pool  | RT       |
| 581                  | Cardington | S 22          | 70 NL 1550 EL   | SE       | Mammoth Prod. Co.     | 1     | F. Long             | 1-28         | €cr        | --            | --   | --          | 3126   | Pool  | RT       |
| 582                  | Cardington | S 23          | 585 NL 1055 WL  | NW       | Perry Fulk, Sr.       | 1     | G. & F. Robinson    | 1-20         | €cr        | Acid          | --   | 600         | 3061   | Pool  | RT       |
| 583                  | Cardington | S 23          | 1563 NL 900 EL  | SE       | Gibson Excavating Co. | 1     | M. Otterbacher      | 2-9          | €cr        | --            | --   | --          | 3147   | Pool  | CT       |
| 584                  | Bennington | S 18 (1Q)     | 460 NL 335 WL   | NE       | Gibson Excavating Co. | 2     | W. & F. Ashbaugh    |              |            |               |      |             |        | Pool  | CT       |
| 585                  | Gilead     | S 22          | 698 NL 760 WL   | NE       | Bill D. Vaught        | 2     | H. & C. Offcutt     | 1-25         | €cr        | --            | --   | --          | 3175   | Pool  | CT       |
| 586                  | Gilead     | S 35          | 1385 SL 295 EL  | SW       | Dee Oil Co.           | 1     | Dumbaugh            | 3-28         | €cr        | --            | --   | --          | 3347   | Pool  | RT       |
| 587                  | Gilead     | S 35-E        | 1627 NL 131 EL  | SW       | Dee Oil Co.           | 2     | I. Rutherford       | 3-28         | €cr        | --            | --   | --          | 3347   | Pool  | RT       |
| 588                  | Bennington | L 21 (1Q)     | 331 SL 339 WL   |          | Howard D. Atha        | 1     | E. C. Ashley        | 1-23         | €cr        | --            | --   | --          | 3676   | Pool  | RT       |
| 589                  | Gilead     | S 1           | 650 NL 239 WL   | SW       | Howard D. Atha        | 2     | George Levering     | 2-6          | €cr        | Acid          | --   | 180         | 3257   | Pool  | RT       |
| 590                  | Cardington | S 20          | 250 SL 781 WL   | SE       | E & B Oil Producers   | 1     | R. Skinner          | 5-4          | €cr        | --            | --   | --          | 3082   | NWC   | RT       |
| 591                  | Bennington | L 13 (2Q)     | 118 NL 3980 WL  |          | E & B Oil Producers   | 1     | Ralston-Ludwig      |              |            |               |      |             |        | Out   | RT       |



## LIST OF OPERATIONS DURING 1964

| Permit<br>Number     | Township   | Land<br>Division | Location        | Operator | Well<br>No.              | Lease | Date<br>Comp.      | Deepest<br>Unit | Type<br>Comp. | Initial Prod. |      | Total<br>Depth | Class. | Tools | Remarks                          |                        |
|----------------------|------------|------------------|-----------------|----------|--------------------------|-------|--------------------|-----------------|---------------|---------------|------|----------------|--------|-------|----------------------------------|------------------------|
|                      |            |                  |                 |          |                          |       |                    |                 |               | MCFGPD        | BOPD |                |        |       |                                  |                        |
| MORROW COUNTY (con.) |            |                  |                 |          |                          |       |                    |                 |               |               |      |                |        |       |                                  |                        |
| 592                  | Cardington | S 17             | 330 SL 600 WL   | NE       | Louis C. Ramp            | 1     | C. & F. Smith      | 3-26            | €cr           | --            | --   | 3012           | Out    | CT    | Canceled                         |                        |
| 593                  | Gilead     | S 14             | 458 NL 600 EL   | NW       | Pilgrim Oil Co.          | 1     | H. Kester          | 3-26            | €cr           | --            | --   | 3336           | Pool   | RT    |                                  |                        |
| 594                  | Cardington | S 22             | 80 NL 2558 WL   | SW       | J. Van Busick            | 1     | D. & B. Naylor     | 3-23            | €cr           | --            | --   | 3100           | Pool   | CT    |                                  |                        |
| 595                  | Cardington | S 22             | 750 NL 2595 WL  | SW       | James H. Cassidy         | 1     | W. & M. Kegley     |                 |               |               |      |                | Pool   | RT    |                                  |                        |
| 596                  | Cardington | S 22             | 755 NL 2380 WL  | SW       | James H. Cassidy         | 2     | W. & M. Kegley     | 1-30            | €cr           | --            | --   | 3173           | Pool   | RT    |                                  |                        |
| 597                  | Cardington | S 22             | 760 NL 2235 WL  | SW       | James H. Cassidy         | 3     | W. & M. Kegley     |                 |               |               |      |                | Pool   | RT    | Canceled<br>Abd. 7-16            |                        |
| 598                  | Cardington | S 22             | 1475 NL 785 EL  | SE       | H. Floyd Faust           | 1     | H. & L. Russell    | 1-26            | €cr           | --            | --   | 25             | 3144   | Pool  |                                  | RT                     |
| 599                  | Westfield  | L 8 (3Q)         | 600 SL 670 WL   |          | W. J. Kamman & Assoc.    | 1     | H. & S. Van Hook   | 2-8             | €cr           | --            | --   |                | 2727   | FWC   | CT                               |                        |
| 600                  | Bennington | L 20 (1Q)        | 330 SL 330 EL   |          | Don Baines Dig. Co.      | 1     | V. & H. Horst      | 3-10            | €cr           | --            | --   |                | 3655   | Out   | CT                               |                        |
| 601                  | Lincoln    | L 7 (1Q)         | 100 NL 1275 WL  |          | Perry Fulk, Sr.          | 1     | V. L. Nusser       | 1-24            | €cr           | Acid          | --   | 400            | 3310   | Out   | RT                               |                        |
| 602                  | Cardington | S 22             | 282 NL 668 EL   | SE       | Perry Fulk, Sr.          | 3     | R. & E. Baker      |                 |               |               |      |                | Pool   | RT    | Canceled                         |                        |
| 603                  | Cardington | S 22             | 40 SL 871 EL    | NE       | Patrick Pet. Co.         | 1     | R. R. Green        | 1-25            | €cr           | Acid          | --   | 125            | 3186   | Pool  |                                  | RT                     |
| 604                  | Gilead     | S 27             | 248 NL 1400 WL  | SW       | Affeld & Falese Oil      | 1-B   | O. Holt            | 2-1             | €cr           | Acid          | --   | 200            | 3160   | Out   | RT                               |                        |
| 605                  | Gilead     | S 30             | 850 NL 200 EL   | NW       | Sam H. Cassidy           | 1     | H. & R. Burson     | 2-26            | €cr           | Acid          | --   | --             | 3546   | NWC   | CT                               | Oil 18 BPD<br>Canceled |
| 606                  | Cardington | L 20             | 568 SL 905 EL   |          | Russell McDowell         | 1     | E. Heiber          |                 |               |               |      |                | Pool   | RT    |                                  |                        |
| 607                  | Cardington | L 20             | 772 SL 1490 EL  |          | Russell McDowell         | 1     | C. Heimlich        |                 |               |               |      |                | Pool   | RT    | Canceled<br>Abd. loc.            |                        |
| 608                  | Gilead     | S 2              | 1047 SL 780 WL  | NE       | Keillor & Clark          | 1     | C. & E. Thornton   |                 |               |               |      |                | Pool   | RT    |                                  |                        |
| 609                  | Cardington | S 22             | 200 SL 200 EL   |          | Jerry D. Black           | 1     | Mary Osborn        |                 |               |               |      |                | Pool   | RT    | Canceled                         |                        |
| 610                  | Cardington | S 23             | 975 NL 280 WL   | NW       | Howard D. Atha           | 1     | A. & T. Coder      | 1-19            | €cr           | Acid          | --   | 70             | 3076   | Pool  |                                  | RT                     |
| 611                  | Cardington | S 22             | 1800 NL 230 EL  | NE       | Ashland O. & R. Co.      | 1-A   | R. R. Green        | 1-30            | €cr           | Acid          | --   | 520            | 3091   | Pool  | RT                               |                        |
| 612                  | Cardington | S 16             | 490 NL 265 EL   | SE       | Killbuck Dig. Co.        | 1     | C. E. Hashman      | 3-7             | €cr           | --            | --   |                | 3107   | Pool  | CT                               |                        |
| 613                  | Cardington | L 6-E            | 680 SL 310 WL   |          | T. C. Moore              | 2     | H. H. Denton       | 3-26            | €cr           | --            | --   |                | 3155   | Pool  | CT                               |                        |
| 614                  | Cardington | S 23             | 1370 NL 352 WL  | NW       | Kemmerly-Loffland-Basore | 2     | G. Riley Hobbs     | 2-26            | €cr           | Acid          | --   | 400            | 3105   | Pool  | RT                               |                        |
| 615                  | Cardington | S 23             | 1120 NL 110 WL  | NW       | Kemmerly-Loffland-Basore | 3     | G. Riley Hobbs     | 2-26            | €cr           | Acid          | --   | 50             | 3107   | Pool  | RT                               |                        |
| 616                  | Cardington | S 23             | 80 NL 1010 EL   | NE       | Kemmerly-Loffland-Basore | 2     | R. Zinn            |                 |               |               |      |                | Pool   | RT    | Canceled                         |                        |
| 617                  | Gilead     | S 23             | 141 NL 1488 WL  | NE       | Gibson Excavating Co.    | 2     | C. L. Howard       |                 |               |               |      |                | Pool   | RT    | Canceled<br>Canceled             |                        |
| 618                  | Gilead     | S 14             | 614 SL 511 WL   | SE       | Gibson Excavating Co.    | 1     | F. & V. Frazier    |                 |               |               |      |                | Pool   | CT    |                                  |                        |
| 619                  | Lincoln    | L 16 (3Q)        | 200 NL 1049 WL  |          | Gibson Excavating Co.    | 2     | C. & V. Bennet     |                 |               |               |      |                | Pool   | RT    | Canceled                         |                        |
| 620                  | Cardington | S 22             | 100 SL 100 EL   | NE       | Perry Fulk, Sr.          | 1     | R. & R. Green      | 1-23            | €cr           | Acid          | --   | 40             | 3220   | Pool  |                                  | RT                     |
| 621                  | Gilead     | S 3              | 280 NL 800 WL   | NE       | E. L. Whitmer Dig. Co.   | 1     | R. Kipp            |                 |               |               |      |                | Pool   | RT    | Canceled                         |                        |
| 622                  | Lincoln    | L 30 (1Q)        | 770 NL 450 WL   |          | Jenkins Engineering      | 2     | C. Davis           | 2-30            | €cr           | --            | --   |                | 3227   | Out   | CT                               |                        |
| 623                  | Lincoln    | L 15 (2Q)        | 330 SL 800 WL   |          | Jenkins Engineering      | 1     | E. Burgraff        | 3-16            | €cr           | --            | --   |                | 3179   | Out   | CT                               |                        |
| 624                  | Cardington | S 22             | 1000 NL 1240 WL | NW       | Ashland O. & R. Co.      | 1     | Hack & Coutts      | 2-4             | €cr           | Acid          | --   | 101            | 3165   | Pool  | RT                               |                        |
| 625                  | Cardington | S 4              | 478 SL 654 EL   | NE       | Ashland O. & R. Co.      | 1     | H. & M. Lee        | 1-23            | €cr           | Acid          | --   | 600            | 3186   | Pool  | RT                               |                        |
| 626                  | Cardington | S 22             | 820 NL 1700 WL  | SW       | Killbuck Dig. Co.        | 1     | M. Westbrook       | 3-30            | €cr           | --            | --   |                | 3157   | Pool  | CT                               |                        |
| 627                  | Cardington | S 23             | 1040 NL 800 EL  | NE       | Pilgrim O. & G. Co.      | 4     | H. Smith           | 1-26            | €cr           | Acid          | --   | 200            | 3163   | Pool  | RT                               |                        |
| 628                  | Cardington | S 22             | 50 NL 1200 WL   | SE       | Hobson Oil Co.           | 2     | Ira Eads           |                 |               |               |      |                | Pool   | RT    | Canceled<br>Canceled<br>Canceled |                        |
| 629                  | Harmony    | S 1              | 221 NL 1940 EL  | SE       | Frank O. Cox             | 1     | M. Edmundson       |                 |               |               |      |                | FWC    | CT    |                                  |                        |
| 630                  | Chester    | L 6 (2Q)         | 404 SL 617 WL   |          | Frank O. Cox             | 1     | H. & M. Whitney    |                 |               |               |      |                | FWC    | CT    |                                  |                        |
| 631                  | Washington | S 13-S           | 1355 NL 870 WL  | NE       | Halcar Dig. Co.          | 1     | Geraldine Sharrock | 2-26            | €cr           | --            | --   |                | 3484   | FWC   |                                  | CT                     |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                   | Lease                     | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks      |
|----------------------|---------------|---------------|-----------------|----------|----------------------------|---------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------|
|                      |               |               |                 |          |                            |                           |            |              |            | MCFGPD        | BOPD |             |        |       |              |
| MORROW COUNTY (con.) |               |               |                 |          |                            |                           |            |              |            |               |      |             |        |       |              |
| 632                  | Cardington    | S 22          | 900 SL 555 WL   | SE       | Halcar Dlg. Co.            | 1 McClain                 | 4-1        | €cr          | --         | --            | --   | 3154        | Pool   | RT    | Oil 7 BPD    |
| 633                  | Cardington    | S 22          | 1740 NL 1610 EL | SE       | Don Baines Dlg. Co.        | 1 K. Jones                | 1-30       | €cr          | --         | --            | --   | 3126        | Pool   | RT    |              |
| 634                  | Cardington    | S 22          | 2315 NL 2213 EL | SE       | Dock Oil Prod., Inc.       | 1 William Pierce          | 2-5        | €cr          | --         | --            | --   | 3170        | Pool   | RT    |              |
| 635                  | Gilead        | S 12          | 750 SL 975 EL   | SW       | Keener Oil Co.             | 1 C. L. Levering          |            |              |            |               |      |             | Pool   | CT    | Canceled     |
| 636                  | Gilead        | S 12          | 1160 SL 1140 EL | SE       | Keener Oil Co.             | 1 F. & R. Loren           |            |              |            |               |      |             | Pool   | CT    |              |
| 637                  | Gilead        | S 14          | 545 SL 516 WL   | NE       | Keener Oil Co.             | 1 V. J. Long              | 4-4        | €cr          | --         | --            | --   | 3375        | Pool   | CT    | Canceled     |
| 638                  | Harmony       | L 5 (4Q)      | 460 NL 70 EL    |          | W. Kenneth Adair           | 1 B. & L. Lowe            | 3-12       | €cr          | --         | --            | --   | 3750        | FWC    | CT    |              |
| 639                  | Gilead        | S 10          | 175 SL 1340 WL  | NW       | Midwest O. & G. Corp.      | 1 Fred Wenger             |            |              |            |               |      |             | Pool   | CT    |              |
| 640                  | Cardington    | S 22          | 414 NL 347 EL   | SE       | Hobson Oil Co.             | 1 E. & B. Helmuth         | 2-24       | €cr          | --         | --            | --   | 3150        | Pool   | RT    |              |
| 641                  | Cardington    | S 22          | 1836 NL 1400 EL | SE       | Hobson Oil Co.             | 1 R. Partlow              | 2-10       | €cr          | --         | --            | --   | 3163        | Pool   | RT    |              |
| 642                  | Cardington    | S 23          | 1190 NL 790 WL  | NW       | Howard D. Atha             | 2 V. & H. Pietranglo      | 2-2        | €cr          | Acid       | --            | 100  | 3069        | Pool   | RT    | Canceled     |
| 643                  | Gilead        | S 2-W         | 640 NL 50 WL    | SW       | Gerald R. Hill             | 1 Fred Smith              | 1-30       | €cr          | --         | --            | --   | 3115        | Pool   | RT    |              |
| 644                  | Troy          | S 20          | 1600 NL 800 EL  | NE       | Pan American Pet. Co.      | 1 R. Raney                | 2-20       | €cr          | --         | --            | --   | 4300        | FWC    | RT    |              |
| 645                  | Gilead        | S 3           | 280 NL 1255 EL  | NE       | Keillor & Clark            | 1 Oscar Beck              | 3-5        | €cr          | --         | --            | --   | 3191        | Pool   | RT    |              |
| 646                  | Gilead        | S 3           | 330 NL 787 EL   | NE       | Keillor & Clark            | 1 Stella George           |            |              |            |               |      |             | Pool   | RT    |              |
| 647                  | Gilead        | S 3           | 398 NL 712 EL   | NE       | Keillor & Clark            | 2 Stella George           |            |              |            |               |      |             | Pool   | RT    | Canceled     |
| 648                  | Gilead        | S 3           | 460 NL 635 EL   | NE       | Keillor & Clark            | 3 Stella George           |            |              |            |               |      |             | Pool   | RT    |              |
| 649                  | Cardington    | S 15          | 1620 SL 1040 WL | SW       | Ashland O. & R. Co.        | 1 Walter Long             | 2-13       | €cr          | Acid       | --            | 30   | 3184        | Pool   | RT    | Discovery    |
| 650                  | Harmony       | L 13 (3Q)     | 970 SL 650 EL   |          | Cavalier Oil Co.           | 2 E. & A. Davis           | 1-29       | €cr          | Acid       | --            | 525  | 3472        | FWC    | RT    |              |
| 651                  | Cardington    | S 23          | 990 SL 238 WL   | NW       | Mammoth Prod. Co.          | 1 J. & R. Patterson       | 1-25       | €cr          | Acid       | --            | 540  | 3052        | Pool   | RT    |              |
| 652                  | Peru          | L 14 (1Q)     | 263 SL 88 WL    |          | David Law                  | 1 J. & G. Jose            | 3-4        | €cr          | --         | --            | --   | 3170        | Pool   | CT    | Canceled     |
| 653                  | Cardington    | S 22          | 50 NL 370 EL    | SE       | Gibbs Oil Co.              | 1 L. & M. Davis           | 2-3        | €cr          | Acid       | --            | 390  | 3159        | Pool   | RT    |              |
| 654                  | Gilead        | S 14-S        | 730 SL 850 WL   | SE       | Algonquin Pet. Co.         | 1 C. Wood                 | 1-28       | €cr          | --         | --            | --   | 3367        | Out    | RT    |              |
| 655                  | Gilead        | S 35-W        | 300 SL 50 WL    | SW       | Algonquin Pet. Co.         | 3 E. Brinkman             |            |              |            |               |      |             | Pool   | RT    |              |
| 656                  | Gilead        | S 35-W        | 400 SL 50 WL    | SW       | Algonquin Pet. Co.         | 4 E. Brinkman             |            |              |            |               |      |             | Pool   | RT    |              |
| 657                  | Gilead        | S 35-W        | 800 SL 400 WL   | SW       | Algonquin Pet. Co.         | 5 E. Brinkman             |            |              |            |               |      |             | Pool   | RT    | Canceled     |
| 658                  | Cardington    | S 23          | 843 SL 486 WL   | NW       | Killbuck Dlg. Co.          | 2 Smiley-Beam             | 2-17       | €cr          | --         | --            | --   | 3071        | Pool   | CT    |              |
| 659                  | Cardington    | S 23          | 994 SL 1080 WL  | NW       | Killbuck Dlg. Co.          | 3 Smiley-Beam             |            |              |            |               |      |             | Pool   | RT    | Canceled     |
| 660                  | Cardington    | S 23          | 692 SL 1080 WL  | NW       | Killbuck Dlg. Co.          | 4 Smiley-Beam             |            |              |            |               |      |             | Pool   | RT    |              |
| 661                  | Peru          | L 9 (1Q)      | 600 SL 1930 EL  |          | Kin-Ark Oil Co.            | 1 L. Howard               | 1-27       | €cr          | --         | --            | --   | 3300        | Pool   | RT    | SWDW 12-1964 |
| 662                  | Cardington    | L 7-E         | 350 SL 210 WL   |          | J. A. Lavender, Jr.        | 1 L. Hack                 | 3-11       | €cr          | Acid       | --            | 101  | 3165        | Pool   | CT    | Canceled     |
| 663                  | Cardington    | L 7-E         | 550 SL 1150 WL  |          | J. A. Lavender, Jr.        | 1 S. Geckley              | 2-25       | €cr          | Acid       | --            | --   | 3170        | Pool   | CT    |              |
| 664                  | Cardington    | L 7-E         | 540 SL 1252 WL  |          | J. A. Lavender, Jr.        | 1 E. Baker                |            |              |            |               |      |             | Pool   | RT    |              |
| 665                  | Gilead        | S 18          | 1400 NL 330 WL  | NW       | Southern Triangle Oil      | 1 D. Burns                | 2-2        | €cr          | Acid       | --            | 70   | 3458        | Pool   | RT    |              |
| 666                  | Cardington    | L 8           | 450 SL 130 EL   |          | E. L. Whitmer              | 1 C. Bunnell              | 3-4        | €cr          | Acid       | --            | 22   | 3153        | Pool   | RT    |              |
| 667                  | Cardington    | S 23          | 710 NL 790 WL   | NW       | Howard D. Atha             | 2 A. & T. Coder           | 1-25       | €cr          | Acid       | --            | 250  | 3075        | Pool   | RT    | Abd. 8-19    |
| 668                  | Cardington    | L 10          | 555 NL 323 WL   |          | Fulk, Jr. & Schwetz        | 1 L. & M. McClintock      | 1-30       | €cr          | --         | --            | --   | 3128        | Pool   | RT    |              |
| 669                  | Cardington    | S 3           | 416 NL 88 EL    | NE       | Perry Fulk, Jr.            | 1 H. & W. Click           | 1-29       | €cr          | --         | --            | --   | 3193        | Pool   | RT    |              |
| 670                  | Cardington    | S 23          | 1250 SL 1385 WL | NW       | Mammoth Prod. Co.          | 1 J. & M. Mosher          | 2-1        | €cr          | Acid       | --            | 575  | 3199        | Pool   | RT    |              |
| 671                  | Cardington    | S 27          | 55 NL 585 WL    |          | Frank O. Cox               | 1 Murphy-Stone            | 3-28       | €cr          | --         | --            | --   | 3169        | Pool   | CT    |              |
| 672                  | Cardington    | S 22          | 1455 NL 705 EL  | SE       | Gibbs Oil Co. (Horan)      | 1 George Ruehrmund        | 2-11       | €cr          | --         | --            | --   | 3111        | Pool   | RT    |              |
| 673                  | Cardington    | S 23          | 290 NL 830 WL   | SW       | Ashland O. & R. Co.        | 2 F. Patterson            | 1-29       | €cr          | --         | --            | --   | 3207        | Pool   | RT    |              |
| 674                  | Gilead        | S 3           | 576 NL 601 EL   | NE       | Daiton Dlg. Co.            | 2 Mt. Gilead Shortline RR | 7-10       | €cr          | --         | --            | --   | 3235        | Pool   | RT    |              |
| 675                  | S. Bloomfield | S 19          | 660 SL 660 WL   | NE       | Ferguson Oil Co.           | 1 F. Hankins              | 4-8        | €cr          | --         | --            | --   | 4072        | FWC    | CT    |              |
| 676                  | Lincoln       | L 23 (1Q)     | 384 SL 1330 WL  |          | Jerry Moore, Inc. (Baines) | 2 R. Henry                | 2-12       | €cr          | Acid       | --            | --   | 3213        | Pool   | RT    |              |

## LIST OF OPERATIONS DURING 1964

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|----------------------|---------------|---------------|-----------------|--------------------------|----------|-----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|------------|
|                      |               |               |                 |                          |          |                       |            |              |            | MCFGPD        | BOPD |             |        |       |            |
| MORROW COUNTY (con.) |               |               |                 |                          |          |                       |            |              |            |               |      |             |        |       |            |
| 677                  | Lincoln       | L 16 (1Q)     | 330 NL 330 EL   | Don Baines Dlg. Co.      | 1        | Stella Powers         | 4-15       | €cr          | Acid       | --            | --   | 3228        | Out    | RT    | Canceled   |
| 678                  | Gilead        | S 35-E        | 70 SL 1415 WL   | Regulus, Inc.            | 1        | Morrow Co. Foundation |            |              |            |               |      |             | Pool   | CT    |            |
| 679                  | Cardington    | L 7-E         | 505 SL 300 WL   | Kuypeco Corp. (Shinn)    | 1        | E. & P. Brake         | 2-9        | €cr          | --         | --            | --   | 3150        | Pool   | RT    | Canceled   |
| 680                  | Franklin      | L 4 (4Q)      | 370 NL 300 WL   | Kuypers Oil Co.          | 1        | E. F. Reed            |            |              |            |               |      |             | Pool   | RT    |            |
| 681                  | Cardington    | S 22          | 730 NL 240 EL   | Hobson Oil Co.           | 1        | K. Mansfield          | 4-13       | €cr          | Acid       | --            | --   | 3170        | Pool   | RT    | Oil 14 BPD |
| 682                  | Cardington    | S 22          | 207 SL 1980 EL  | T & W Oil Co. (Hobson)   | 1        | Herschall Landon      | 2-22       | €cr          | --         | --            | --   | 3180        | Pool   | RT    | Canceled   |
| 683                  | Gilead        | S 3           | 393 NL 90 EL    | Thurlow Weed             | 1        | H. & E. West          | 2-4        | €cr          | --         | --            | --   | 3253        | Pool   | RT    |            |
| 684                  | Gilead        | L 8           | 260 NL 580 EL   | John H. Posselius        | 1        | Glenn Jackson         | 2-26       | €cr          | --         | --            | --   | 3363        | NWC    | CT    | Canceled   |
| 685                  | Cardington    | L 7-E         | 980 SL 740 WL   | Jenkins Engineering      | 1        | C. Maxwell            | 1-26       | €cr          | --         | --            | 50   | 3075        | Pool   | RT    |            |
| 686                  | Gilead        | S 24          | 330 SL 330 EL   | Royal O & G; Irvin Prod. | 1        | C. L. Campbell        |            |              |            |               |      |             | FWC    | CT    |            |
| 687                  | Cardington    | L 20          | 905 SL 1405 WL  | Ponderosa Oil Co.        | 1        | Heimlich              | 4-20       | €cr          | --         | --            | --   | 3155        | Pool   | CT    | Canceled   |
| 688                  | Cardington    | S 23          | 237 NL 1265 WL  | Perry Fulk, Sr.          | 4-A      | Sansota Co.           | 2-10       | €cr          | Acid       | --            | 500  | 3145        | Pool   | RT    |            |
| 689                  | Gilead        | S 35-E        | 350 SL 1750 EL  | Bill D. Vaught           | 4        | J. & J. Auld          |            |              |            |               |      |             | Pool   | RT    | Discovery  |
| 690                  | S. Bloomfield | S 3           | 780 SL 330 EL   | C. E. Ringler            | 1        | Vernon Harrod         | 4-20       | €cr          | --         | --            | --   | 3993        | FWC    | CT    |            |
| 691                  | Perry         | S 7           | 332 SL 565 WL   | Astro Pet. & Invest.     | 1        | H. A. LeMons          | 2-18       | Shb          | Nat        | 2600          | --   | 1568        | FWC    | CT    |            |
| 692                  | Cardington    | S 27          | 120 NL 2440 EL  | Jerry D. Black           | 1        | A. Ullom              | 2-11       | €cr          | --         | --            | --   | 3113        | Pool   | RT    | Canceled   |
| 693                  | Cardington    | S 14          | 66 SL 1128 WL   | Glenwood O. & G. Corp.   | 1        | B. Long               | 2-21       | €cr          | --         | --            | --   | 3204        | Pool   | RT    |            |
| 694                  | Gilead        | S 2           | 245 NL 848 WL   | T & W Oil (Hobson)       | 1        | E. & G. Lancaster     | 4-2        | €cr          | --         | --            | --   | 3318        | Pool   | CT    | Canceled   |
| 695                  | Harmony       | L 22 (2Q)     | 600 SL 100 WL   | Kuzmich & Mays           | 1        | R. Headings           | 2-11       | €cr          | --         | --            | --   | 3526        | Out    | RT    |            |
| 696                  | Gilead        | S 34          | 1770 SL 330 EL  | Tri-State Prod. Co.      | 2        | H. Mosher             | 2-7        | €cr          | --         | --            | --   | 3227        | Pool   | RT    |            |
| 697                  | Cardington    | S 23          | 570 NL 1100 WL  | Lynn O. & G. Co.         | 1        | R. E. Murphy          | 3-3        | €cr          | Acid       | --            | 620  | 3018        | Pool   | RT    | Discovery  |
| 698                  | Chester       | L 12 (3Q)     | 850 SL 975 WL   | David Herley             | 2        | Charles Kidwell       | 3-7        | €cr          | Acid       | --            | 12   | 3861        | FWC    | CT    |            |
| 699                  | Gilead        | S 15          | 350 SL 1750 EL  | Bill D. Vaught           | 4        | J. & J. Auld          |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 700                  | Gilead        | S 15          | 600 SL 430 WL   | Bill D. Vaught           | 5        | J. & J. Auld          |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 701                  | Gilead        | S 15          | 100 SL 430 WL   | Bill D. Vaught           | 6        | J. & J. Auld          |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 702                  | Cardington    | L 7-E         | 380 SL 610 WL   | Hobson Oil Co.           | 1        | C. Swartz             |            |              |            |               |      |             | Pool   | RT    | Canceled   |
| 703                  | Lincoln       | L 39 (2Q)     | 700 NL 189 WL   | Keener Oil Co.           | 1        | C. L. Dallas          | 3-5        | €cr          | Acid       | --            | 102  | 3285        | Pool   | CT    | Canceled   |
| 704                  | Cardington    | L 7-E         | 250 NL 95 WL    | B. A. Floto & Assoc.     | 2        | Nazarene Church       |            |              |            |               |      |             | Pool   | CT    |            |
| 705                  | Cardington    | S 22          | 2215 NL 2031 EL | Barron Oil Co.           | 1        | R. & L. Vandage       | 2-16       | €cr          | Acid       | --            | 20   | 3138        | Pool   | RT    | Canceled   |
| 706                  | Cardington    | S 28          | 440 SL 1920 WL  | Frieda Roach             | 1        | Bending & Foreman     | 2-19       | €cr          | --         | --            | --   | 3095        | Out    | RT    |            |
| 707                  | Cardington    | S 23          | 143 SL 170 WL   | J. W. Vandever           | 1        | F. & L. Patterson     | 2-8        | €cr          | Acid       | --            | 388  | 3129        | Pool   | RT    | Canceled   |
| 708                  | Cardington    | S 27          | 138 SL 1614 EL  | B. R. Foster             | 1        | R. S. Bradley         | 3-15       | €cr          | --         | --            | --   | 3170        | Pool   | RT    |            |
| 709                  | Cardington    | S 22          | 1000 SL 1000 WL | B. R. Foster             | 1        | Delbert Foos          |            |              |            |               |      |             | Pool   | RT    | Canceled   |
| 710                  | Cardington    | S 5           | 400 SL 1296 EL  | Mammoth Prod. Co.        | 5        | Oneita Miller         |            |              |            |               |      |             | Pool   | RT    | Canceled   |
| 711                  | Cardington    | S 22          | 1707 SL 413 EL  | Ideal Dlg.; Basin Devel. | 1        | D. S. Y. Unit         | 5-15       | €cr          | Acid       | --            | 435  | 3118        | Pool   | RT    |            |
| 712                  | Cardington    | L 9           | 356 NL 335 WL   | M & D Corp.              | 1        | E. & H. Kirkpatrick   | 1-27       | €cr          | --         | --            | --   | 3120        | Pool   | RT    | Oil 8 BPD  |
| 713                  | Cardington    | S 22          | 610 SL 50 EL    | Perry Fulk, Sr.          | 2        | R. & R. Green         | 2-4        | €cr          | Acid       | --            | 110  | 3195        | Pool   | RT    |            |
| 714                  | Cardington    | L 7-E         | 560 SL 500 WL   | Whetstone Oil Co.        | 1        | O. Walker             | 3-31       | €cr          | --         | --            | --   | 3119        | Pool   | CT    | Canceled   |
| 715                  | Cardington    | S 14          | 777 SL 1124 EL  | Perry Fulk, Sr.          | 1        | F. Easterday          | 2-8        | €cr          | Acid       | --            | --   | 3130        | Pool   | RT    |            |
| 716                  | Washington    | S 26          | 1650 SL 330 EL  | Fulk, Jr. & Schwetz      | 1        | L. W. Rinehart        |            |              |            |               |      |             | FWC    | RT    |            |
| 717                  | Cardington    | S 23          | 677 NL 125 EL   | Fulk, Jr. & Schwetz      | 2-B      | Sansotta Co.          | 2-17       | €cr          | --         | --            | --   | 3167        | Pool   | RT    | Canceled   |
| 718                  | Cardington    | S 23          | 870 NL 342 WL   | Fulk, Jr. & Schwetz      | 3-B      | Sansotta Co.          | 2-7        | €cr          | Acid       | --            | 300  | 3138        | Pool   | RT    |            |
| 719                  | Cardington    | S 22          | 590 NL 710 WL   | Fulk, Jr. & Schwetz      | 1        | Ault-Huebner          |            |              |            |               |      |             | Pool   | RT    | Canceled   |
| 720                  | Gilead        | S 2-E         | 855 SL 686 WL   | Dee Oil Co.              | 2        | Shambaugh-Lentz       |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 721                  | Gilead        | S 2-E         | 615 SL 900 WL   | Dee Oil Co.              | 1        | Shambaugh-Lentz       |            |              |            |               |      |             | Pool   | CT    | Canceled   |

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|----------------------|---------------|---------------|-----------------|---|----------|-------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|----------|
|                      |               |               |                 |   |          |                         |            |              |            | MCFGPD        | BOPD |             |        |       |                    |          |
| MORROW COUNTY (con.) |               |               |                 |   |          |                         |            |              |            |               |      |             |        |       |                    |          |
| 722                  | Cardington    | L 8           | 350 SL 75 EL    | Wayne S. Davis  | 1        | W. & M. Murphy          |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 723                  | Cardington    | L 8           | 75 SL 290 EL    |   | 2        | W. & M. Murphy          |            |              |            |               |      |             |        | Pool  | RT                 | Canceled |
| 724                  | S. Bloomfield | S 9           | 550 SL 300 EL   |   | 1        | G. M. Hulse             | 3-18       | €cr          | --         | --            | --   | 4034        | FWC    | CT    |                    |          |
| 725                  | Lincoln       | L 12 (1Q)     | 930 SL 210 WL   |   | 1        | C. & A. Cooper          | 3-19       | €cr          | --         | --            | --   | 3198        | Pool   | CT    |                    |          |
| 726                  | Bennington    | L 18 (1Q)     | 350 SL 300 WL   |   | 1        | J. W. Brodess           | 2-11       | €cr          | --         | --            | --   | 3676        | Pool   | CT    |                    |          |
| 727                  | Lincoln       | L 27 (1Q)     | 360 NL 360 WL   | Jerry Moore, Inc.<br>Jenkins Engineering<br>Kin-Ark Oil Co.<br>Hobson Oil Co.<br>Kuzmich & Mays     | 1        | E. Click                |            |              |            |               |      |             | Pool   | RT    | Replaced by P-1417 |          |
| 728                  | Cardington    | L 7E          | 870 SL 250 WL   |   | 1        | Benson                  | 2-12       | €cr          | --         | --            | --   | 3142        | Pool   | RT    |                    |          |
| 729                  | Lincoln       | L 12 (2Q)     | 923 NL 100 EL   |   | 1        | W. & L. Sage            | 3-13       | €cr          | Acid       | --            | 170  | 3125        | Out    | CT    |                    |          |
| 730                  | Cardington    | S 22          | 624 NL 522 EL   |   | 1        | Potter                  |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 731                  | Gilead        | L 9 (1Q)      | 700 SL 1300 WL  |   | 1        | E. J. Henry             | 3-1        | €cr          | --         | --            | --   | 3291        | Pool   | RT    |                    |          |
| 732                  | Harmony       | S 8 (1Q)      | 725 NL 600 WL   | Kuzmich & Mays<br>Kuzmich & Mays<br>W. H. Patten Dig.<br>D. H. Baldwin<br>McGrew Oil Assoc.(T&W)    | 1        | R. & E. McNamee         |            |              |            |               |      |             | Out    | RT    | Replaced by P-1439 |          |
| 733                  | Lincoln       | L 3 (2Q)      | 100 NL 1310 EL  |   | 1        | M. & H. Patzer          | 2-12       | €cr          | Acid       | --            | 50   | 3121        | Out    | RT    |                    |          |
| 734                  | Cardington    | S 22          | 269 SL 2703 EL  |   | 1        | D. W. Crawford          | 4-6        | €cr          | --         | --            | --   | 3129        | Pool   | CT    |                    |          |
| 735                  | Lincoln       | L 39 (4Q)     | 400 SL 970 EL   |   | 1        | Vernon Trimmer          | 2-19       | €cr          | --         | --            | --   | 3227        | Pool   | RT    |                    |          |
| 736                  | Cardington    | S 22          | 2168 NL 1885 EL |   | 1        | R. & V. Owens           |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 737                  | Cardington    | S 23          | 1448 NL 50 WL   | McGrew Oil Assoc.<br>Richard Hobson<br>W. H. Patten Dig.<br>W. H. Patten Dig.<br>W. H. Patten Dig.  | 1        | J. & B. Hawk            | 2-18       | €cr          | --         | --            | 3155 | Pool        | RT     |       |                    |          |
| 738                  | Cardington    | L 20          | 570 SL 387 EL   |   | 1        | L. & V. Russell         |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 739                  | Cardington    | L 20          | 497 NL 1514 EL  |   | 1        | D. W. Crawford          |            |              |            |               |      |             | Pool   | CT    | Canceled           |          |
| 740                  | Cardington    | L 20          | 497 NL 1138 EL  |   | 2        | D. W. Crawford          |            |              |            |               |      |             | Pool   | CT    | Canceled           |          |
| 741                  | Cardington    | L 20          | 497 NL 762 EL   |   | 3        | D. W. Crawford          | 4-25       | €cr          | --         | --            | --   | 3095        | Pool   | CT    |                    |          |
| 742                  | Cardington    | S 23          | 1580 SL 150 WL  | Robert Wray<br>Mammoth Prod. Co.<br>Mammoth Prod. Co.<br>Fulk, Jr. & Schwetz<br>Fulk, Jr. & Schwetz | 1        | C. Bean                 |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 743                  | Cardington    | S 23          | 330 SL 30 WL    |   | 2        | J. Patterson            | 2-28       | €cr          | Acid       | --            | 200  | 3079        | Pool   | RT    |                    |          |
| 744                  | Cardington    | S 23          | 630 SL 50 WL    |   | 3        | J. Patterson            | 2-6        | €cr          | Acid       | --            | 560  | 3083        | Pool   | RT    |                    |          |
| 745                  | Cardington    | S 23          | 1110 NL 800 WL  |   | 2        | E. & A. Kinsel          | 2-21       | €cr          | Acid       | --            | 400  | 3142        | Pool   | RT    |                    |          |
| 746                  | Cardington    | S 23          | 1190 NL 260 WL  |   | 4-B      | Sansotta                |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 747                  | Cardington    | S 23          | 1189 NL 150 EL  | Fulk, Jr. & Schwetz<br>Fulk, Jr. & Schwetz<br>Hobson Oil Co.<br>Hobson Oil Co.<br>Hobson Oil Co.    | 5-B      | Sansotta                |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 748                  | Cardington    | S 23          | 1190 NL 460 WL  |   | 4        | Sansotta                |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 749                  | Cardington    | S 22          | 100 NL 1275 WL  |   | 3        | Ira Eads                |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 750                  | Cardington    | S 23          | 430 SL 450 WL   |   | 3        | J. & R. Patterson       | 2-9        | €cr          | Acid       | --            | 50   | 3080        | Pool   | RT    |                    |          |
| 751                  | Cardington    | S 23          | 430 SL 1080 WL  |   | 4        | J. L. Patterson         |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 752                  | Cardington    | S 22          | 780 NL 200 EL   | Hobson Oil Co.<br>Hobson Oil Co.<br>Hobson Oil Co.<br>Hobson Oil Co.<br>Hobson Oil Co.              | 2        | K. Mansfield            |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 753                  | Cardington    | S 22          | 754 NL 565 EL   |   | 1-A      | Potter                  |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 754                  | Cardington    | S 22          | 813 NL 632 EL   |   | 1        | Pace                    | 3-20       | €cr          | Acid       | --            | 30   | 3150        | Pool   | RT    |                    |          |
| 755                  | Cardington    | S 22          | 1472 NL 1210 EL |   | 1        | Glassmeyer              |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 756                  | Cardington    | S 22          | 915 NL 762 EL   |   | 1        | Rhinberger              |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 757                  | Gilead        | S 1           | 650 SL 500 EL   | Hobson Oil Co.<br>Hobson Oil Co.<br>Hobson Oil Co.<br>Hobson Oil Co.<br>Hobson Oil Co.              | 1        | H. Shaffer              |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |          |
| 758                  | Gilead        | S 1           | 750 SL 750 EL   |   | 2        | H. Shaffer              |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 759                  | Gilead        | S 1           | 1000 SL 1100 EL |   | 3        | H. Shaffer              | 3-8        | €cr          | --         | --            | --   | 3275        | Pool   | RT    |                    |          |
| 760                  | Gilead        | S 1           | 725 SL 1050 EL  |   | 4        | H. Shaffer              |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 761                  | Gilead        | S 1           | 400 SL 400 EL   |   | 5        | H. Shaffer              |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |
| 762                  | Cardington    | S 23          | 422 SL 1235 WL  | Howard D. Atha<br>Ridge Oil Co.<br>Ridge Oil Co.<br>Ridge Oil Co.<br>Cheswell Oil, Inc.             | 3        | V. & H. Pietrangelo     | 2-6        | €cr          | --         | --            | 3100 | Pool        | RT     |       |                    |          |
| 763                  | Cardington    | L 9           | 795 NL 485 WL   |   | 1        | R. & V. Heacock         |            |              |            |               |      |             | Pool   | CT    | Canceled           |          |
| 764                  | Cardington    | S 22          | 500 NL 1155 WL  |   | 1        | Cramer-Graham           |            |              |            |               |      |             | Pool   | CT    | Canceled           |          |
| 765                  | Cardington    | S 27          | 100 NL 1430 EL  |   | 1        | VanVoorhis-Arndt-Denton |            |              |            |               |      |             | Pool   | CT    | Canceled           |          |
| 766                  | Cardington    | S 22          | 1794 NL 2407 EL |   | 1        | M. Schenck              | 2-18       | €cr          | --         | --            | --   | 3149        | Pool   | RT    |                    |          |

## LIST OF OPERATIONS DURING 1964

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SUMMARY OF OIL AND GAS ACTIVITY IN 1964

| Permit<br>Number     | Township      | Land<br>Division | Location        | Operator | Well<br>No.             | Lease | Date<br>Comp.          | Deepest<br>Unit | Type<br>Comp. | Initial Prod. |      | Total<br>Depth | Class. | Tools | Remarks  |                    |
|----------------------|---------------|------------------|-----------------|----------|-------------------------|-------|------------------------|-----------------|---------------|---------------|------|----------------|--------|-------|----------|--------------------|
|                      |               |                  |                 |          |                         |       |                        |                 |               | MCFGPD        | BOPD |                |        |       |          |                    |
| MORROW COUNTY (con.) |               |                  |                 |          |                         |       |                        |                 |               |               |      |                |        |       |          |                    |
| 767                  | Cardington    | S 22             | 1813 NL 2545 EL | SE       | Cheswell Oil, Inc.      | 1     | O. & M. Hart           |                 |               |               |      |                | Pool   | RT    | Canceled |                    |
| 768                  | Cardington    | S 22             | 1290 NL 100 EL  | NE       | Patrick Pet. Co.        | 1     | V. G. Ullom            | 2-7             | €cr           | Nat?          | --   | 287            | 3202   | Pool  |          | RT                 |
| 769                  | Gilead        | L 8              | 50 SL 100 EL    |          | John H. Posselius       | 2     | G. Jackson             | 2-9             | €cr           | Acid          | --   | 120            | 3342   | Out   |          | RT                 |
| 770                  | Cardington    | S 22             | 900 NL 2100 EL  | NE       | Ashland O. & R. Co.     | 2     | V. G. Ullom            | 2-24            | €cr           | Acid          | --   | 175            | 3174   | Pool  |          | RT                 |
| 771                  | Lincoln       | L 7 (1Q)         | 100 NL 1277 EL  |          | Cavalier Oil Co.        | 2     | V. F. Blakley          | 2-5             | €cr           | Acid          | --   | 125            | 3314   | Pool  |          | RT                 |
| 772                  | Lincoln       | L 13 (3Q)        | 810 NL 925 EL   |          | Kin-Ark Oil Co.         | 2     | J. Dominy              | 2-2             | €cr           | --            | --   | --             | 3180   | Pool  | RT       | Canceled           |
| 773                  | Gilead        | S 1              | 950 SL 775 EL   | NW       | Thurlow Weed            | 1     | M. & V. Bishop         | 2-10            | €cr           | --            | --   | --             | 3294   | Pool  | RT       |                    |
| 774                  | Cardington    | L 20             | 64 NL 625 EL    |          | Proctor & Sherman       | 1     | Dorothy Beyer          | 4-8             | €cr           | --            | --   | --             | 3121   | Pool  | RT       |                    |
| 775                  | Cardington    | S 22             | 1075 SL 1085 WL | SW       | Proctor & Sherman       | 1     | Paul Richeson          |                 |               |               |      |                |        | Pool  | RT       |                    |
| 776                  | Cardington    | S 22             | 1620 NL 805 WL  | SW       | Petrol Servicing        | 1     | Doty-Davis             | 2-27            | €cr           | --            | --   | --             | 3089   | Pool  | RT       |                    |
| 777                  | Cardington    | S 27             | 196 NL 2132 EL  |          | Gibbs Oil Co.           | 1     | Robert Demuth          | 2-18            | €cr           | --            | --   | --             | 3184   | Pool  | RT       |                    |
| 778                  | Cardington    | S 22             | 1300 NL 710 EL  | SE       | Hobson Oil Co.          | 1     | Benson                 | 2-12            | €cr           | --            | --   | --             | 3130   | Pool  | RT       |                    |
| 779                  | Cardington    | S 22             | 1115 NL 640 EL  | SE       | Hobson Oil Co.          | 2     | Benson                 | 2-13            | €cr           | --            | --   | --             | 3130   | Pool  | RT       |                    |
| 780                  | Westfield     | S 19             | 1450 NL 2120 EL | NE       | Vernon Trimmer, Jr.     | 1     | C. & G. Faulkner       | 2-13            | €cr           | --            | --   | --             | 2930   | FWC   | RT       | Canceled           |
| 781                  | Gilead        | S 2-E            | 620 NL 300 WL   | NE       | Dalton Dlg. Co.         | 1     | Mt.Gilead Shortline RR |                 |               |               |      |                |        | Pool  | RT       |                    |
| 782                  | Gilead        | S 3              | 220 NL 1020 EL  | NE       | Dalton Dlg. Co.         | 3     | Mt.Gilead Shortline RR | 3-18            | €cr           | --            | --   | --             | 3215   | Pool  | RT       |                    |
| 783                  | Gilead        | S 3              | 710 NL 415 EL   | NE       | Dalton Dlg. Co.         | 4     | Mt.Gilead Shortline RR |                 |               |               |      |                |        | Pool  | RT       |                    |
| 784                  | Cardington    | L 8              | 500 SL 1440 EL  |          | Mid-Ohio O. & G. Devel. | 1     | N. & D. Dunham         |                 |               |               |      |                |        | Pool  | RT       |                    |
| 785                  | Cardington    | S 27             | 110 NL 2005 EL  |          | Mid-Ohio O. & G. Devel. | 1     | L. Harris              |                 |               |               |      |                |        | Pool  | RT       | Canceled           |
| 786                  | Gilead        | S 2-W            | 1030 NL 100 WL  | SW       | J. W. Vandever          | 1     | C. R. Noble            | 2-7             | €cr           | --            | --   | --             | 3125   | Pool  | RT       |                    |
| 787                  | Gilead        | S 13             | 1110 SL 910 EL  | NW       | J. W. Vandever          | 2     | Ira Lawyer             | 3-3             | €cr           | Acid          | --   | --             | 3386   | Pool  | RT       | Canceled           |
| 788                  | Cardington    | S 22             | 50 SL 1075 EL   | SE       | Jerry D. Black          | 2     | C. Maxwell             |                 |               |               |      |                |        | Pool  | RT       |                    |
| 789                  | Cardington    | S 22             | 630 SL 760 EL   | SE       | Jerry D. Black          | 3     | C. Maxwell             | 3-27            | €cr           | --            | --   | --             | 3144   | Pool  | RT       |                    |
| 790                  | S. Bloomfield | S 6              | 1360 SL 750 EL  | SE       | POC Oil Corp.           | 2-A   | T. & J. Ray            | 3-11            | €cr           | --            | --   | --             | 3918   | Pool  | RT       |                    |
| 791                  | S. Bloomfield | S 6              | 450 SL 750 EL   | SE       | POC Oil Corp.           | 2-B   | T. & J. Ray            |                 |               |               |      |                |        | Pool  | RT       |                    |
| 792                  | S. Bloomfield | S 15             | 735 NL 1140 WL  | NE       | POC Oil Corp.           | 4-A   | T. & J. Ray            |                 |               |               |      |                |        | Pool  | RT       | Replaced by P-1520 |
| 793                  | Cardington    | S 22             | 716 SL 978 WL   | SW       | E. L. Whitmer           | 1     | B. Long                |                 |               |               |      |                |        | Pool  | RT       | Canceled           |
| 794                  | Cardington    | L 7-E            | 720 SL 1250 WL  |          | E. L. Whitmer           | 1     | M. Richey              | 2-14            | €cr           | --            | --   | --             | 3163   | Pool  | RT       |                    |
| 795                  | Cardington    | S 22             | 982 SL 946 WL   | SW       | Don H. Baldwin          | 1     | J. Wilhelm             |                 |               |               |      |                |        | Pool  | RT       | Canceled           |
| 796                  | Cardington    | S 22             | 880 NL 470 EL   | SW       | Don H. Baldwin          | 1     | C. Foos                |                 |               |               |      |                |        | Pool  | RT       |                    |
| 797                  | Cardington    | S 22             | 244 SL 378 EL   | SW       | Don H. Baldwin          | 1     | Clayton                |                 |               |               |      |                |        | Pool  | RT       | Canceled           |
| 798                  | Cardington    | S 28             | 480 NL 780 EL   | NE       | Lynn O. & G. Co.        | 1     | G. U. Clark            |                 |               |               |      |                |        | Pool  | RT       |                    |
| 799                  | Cardington    | L 20             | 50 SL 125 EL    |          | Lynn O. & G. Co.        | 1     | D. W. Walter           |                 |               |               |      |                |        | Pool  | RT       | Canceled           |
| 800                  | Cardington    | S 22             | 1050 NL 850 EL  | SW       | Lynn O. & G. Co.        | 1     | F. S. Leedy            |                 |               |               |      |                |        | Pool  | RT       |                    |
| 801                  | Cardington    | L 20             | 685 NL 1003 WL  |          | Pyramid Oil Co.         | 1     | C. Ruehrman            | 2-25            | €cr           | --            | --   | --             | 3100   | Pool  | RT       | Canceled           |
| 802                  | Cardington    | L 11             | 780 NL 310 EL   |          | Ralph C. Halbert        | 1     | M. & M. Barry          | 3-4             | €cr           | Acid          | --   | 164            | 3109   | Pool  | RT       |                    |
| 803                  | Gilead        | S 3              | 455 SL 1609 EL  | NE       | Bauer Bros.; S. Cassidy | 1-A   | Roth Newson            | 2-8             | €cr           | --            | --   | --             | 3257   | Pool  | RT       |                    |
| 804                  | Cardington    | S 23             | 103 SL 1450 WL  | SW       | Devonian G. & O. Co.    | 1     | L. Bingham             |                 |               |               |      |                |        | Pool  | RT       |                    |
| 805                  | Cardington    | S 22             | 1083 NL 990 WL  | SW       | Louis C. Ramp           | 1     | R. Osborn              |                 |               |               |      |                |        | Pool  | RT       |                    |
| 806                  | Cardington    | S 22             | 717 NL 971 WL   | SW       | Louis C. Ramp           | 1     | H. Tucker              |                 |               |               |      |                |        | Pool  | RT       |                    |
| 807                  | Cardington    | L 9              | 1182 SL 756 WL  |          | Louis C. Ramp           | 1     | Samuel Eastep          |                 |               |               |      |                |        | Pool  | RT       |                    |
| 808                  | Cardington    | S 22             | 1915 NL 1430 EL | SE       | Mitchell & Donalson     | 1     | Ruth Mahaffey          |                 |               |               |      |                |        | Pool  | RT       | Canceled           |
| 809                  | Lincoln       | L 32 (1Q)        | 70 NL 80 WL     |          | Mitchell & Donalson     | 1     | Irene Garverick        | 3-2             | €cr           | Acid          | --   | 160            | 3163   | Pool  | CT       |                    |
| 810                  | Cardington    | L 8              | 50 NL 116 EL    |          | Walter Duncan           | 1     | W. Davis               |                 |               |               |      |                |        | Pool  | RT       | Canceled           |
| 811                  | Gilead        | S 3              | 465 NL 1150 EL  | NE       | Keilor & Clark          | 1-A   | L. & J. Lyons          | 2-19            | €cr           | --            | --   | --             | 3220   | Pool  | RT       |                    |

LIST OF OPERATIONS DURING 1964

| Permit<br>Number     | Township   | Land<br>Division | Location        | Operator | Well<br>No.                | Lease                 | Date<br>Comp. | Deepest<br>Unit | Type<br>Comp. | Initial Prod. |      | Total<br>Depth | Class. | Tools | Remarks               |
|----------------------|------------|------------------|-----------------|----------|----------------------------|-----------------------|---------------|-----------------|---------------|---------------|------|----------------|--------|-------|-----------------------|
|                      |            |                  |                 |          |                            |                       |               |                 |               | MCFGPD        | BOPD |                |        |       |                       |
| MORROW COUNTY (con.) |            |                  |                 |          |                            |                       |               |                 |               |               |      |                |        |       |                       |
| 812                  | Gilead     | S 35             | 2300 NL 500 WL  | SE       | Hobson Oil Co.             | 1 Nelson Campbell     | 4-18          | €cr             | --            | --            | --   | 3420           | Pool   | CT    |                       |
| 813                  | Cardington | S 22             | 2255 NL 2485 WL | SW       | Barron Oil Co.             | 1 M. Barler           | 3-2           | €cr             | --            | --            | --   | 3110           | Pool   | RT    |                       |
| 814                  | Cardington | S 22             | 2380 NL 2550 EL | SE       | Barron Oil Co.             | 1 Hilda Riggs         |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 815                  | Cardington | S 22             | 1811 NL 2335 EL | SE       | Barron Oil Co.             | 1 Walter Hack         |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 816                  | Cardington | L 8              | 460 SL 695 EL   |          | Barron Oil Co.             | 1 R. & D. Cook        |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 817                  | Cardington | S 22             | 313 NL 1125 WL  | SW       | Barron Oil Co.             | 1 Hazel Fink          | 3-2           | €cr             | --            | --            | --   | 3126           | Pool   | RT    |                       |
| 818                  | Cardington | S 27             | 156 SL 2720 WL  |          | Barron Oil Co.             | 1 Anna Howard         | 2-17          | €cr             | --            | --            | --   | 3131           | Pool   | RT    |                       |
| 819                  | Gilead     | S 3              | 1085 NL 545 EL  | NE       | Keillor & Clark            | 1 Justin Earley       |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 820                  | Gilead     | S 3              | 1060 NL 755 EL  | NE       | Keillor & Clark            | 2 Justin Earley       |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 821                  | Gilead     | S 3              | 795 NL 505 EL   | NE       | Keillor & Clark            | 3 Justin Earley       |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 822                  | Gilead     | S 3              | 1132 NL 338 EL  | NE       | Keillor & Clark            | 1 H. E. West          |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 823                  | Gilead     | S 3              | 980 NL 270 EL   | NE       | Keillor & Clark            | 2 H. E. West          |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 824                  | Gilead     | S 3              | 605 NL 738 EL   | NE       | Keillor & Clark            | 2 Chester Machen      |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 825                  | Gilead     | S 3              | 270 NL 1120 EL  | NE       | Keillor & Clark            | 2 Lowell Lyon         |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 826                  | Gilead     | S 3              | 685 NL 1110 EL  | NE       | Keillor & Clark            | 3 Lowell Lyon         |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 827                  | Gilead     | S 3              | 935 NL 1135 EL  |          | Keillor & Clark            | 4 Lowell Lyon         |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 828                  | Cardington | L 23             | 515 SL 558 EL   |          | Dynamic Mineral Devel.     | 1 N. Jenkins          | 3-16          | €cr             | --            | --            | --   | 3009           | Pool   | CT    |                       |
| 829                  | Gilead     | S 10             | 1160 NL 990 WL  | NE       | Dynamic Mineral Devel.     | 1 Edna Mosher         | 7-1           | €cr             | --            | --            | --   | 2990           | Pool   | CT    |                       |
| 830                  | Cardington | L 8              | 75 NL 889 EL    |          | Don Baines Dlg. Co.        | 1 R. Keen             | 3-14          | €cr             | --            | --            | --   | 3115           | Pool   | RT    |                       |
| 831                  | Cardington | L 9              | 453 NL 357 WL   |          | Don Baines Dlg. Co.        | 1 Snyder              |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 832                  | Cardington | S 27             | 162 SL 537 WL   |          | Don Baines Dlg. Co.        | 1 Matthews            | 2-21          | €cr             | --            | --            | --   | 3120           | Pool   | RT    |                       |
| 833                  | Cardington | L 8              | 975 NL 250 WL   | NW       | Frank O. Cox               | 1 E. & F. Detwiler    |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 834                  | Cardington | S 21             | 1860 NL 150 EL  | SE       | Frank O. Cox               | 1 L. & G. Bailey      |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 835                  | Cardington | L 20             | 680 NL 330 EL   |          | Frank Morrison             | 1 H. & G. Bennett     |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 836                  | Cardington | S 28             | 835 NL 820 EL   |          | Frank Morrison             | 1 B. & D. Bradley     |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 837                  | Cardington | S 22             | 1440 NL 750 EL  | SW       | Frank O. Cox               | 1 Arthur Heimlich     | 3-23          | €cr             | --            | --            | --   | 3105           | Pool   | RT    |                       |
| 838                  | Gilead     | S 2-E            | 812 SL 623 EL   | SE       | M. Miller & D. Claypool    | 1 Claypool Rental Co. | 9-24          | Snb?            | --            | --            | --   | --             | Pool   | CT    | Discontinued 1009 ft. |
| 839                  | Gilead     | S 2              | 2090 NL 100 EL  | SE       | M. Miller & D. Claypool    | 2 Claypool Rental Co. |               |                 |               |               |      |                | Pool   | CT    | Canceled              |
| 840                  | Canaan     | S 34             | 340 NL 1630 WL  | SW       | Ashland O. & R. Co.        | 1-B A. Garverick      |               |                 |               |               |      |                | Pool   | RT    | Abd. loc.             |
| 841                  | Canaan     | S 34             | 330 SL 2050 EL  | SE       | Ashland O. & R. Co.        | 1 R. M. Bush          | 3-19          | €cr             | Acid          | --            | 72   | 3255           | Pool   | RT    |                       |
| 842                  | Cardington | L 8              | 303 SL 400 EL   |          | Noble Hall                 | 1 L. Snyder           | 3-11          | €cr             | Acid          | --            | 150  | 3142           | Pool   | RT    |                       |
| 843                  | Cardington | L 7-E            | 100 NL 760 EL   |          | Jerry D. Black             | 5 Cecil Maxwell       |               |                 |               |               |      |                | Pool   | CT    | Canceled              |
| 844                  | Cardington | L 7              | 770 SL 660 WL   | SE       | Whetstone Oil Co.          | 2 O. Walker           |               |                 |               |               |      |                | Pool   | CT    | Canceled              |
| 845                  | Cardington | L 20             | 1000 SL 350 WL  |          | Lynn O. & G. Co.           | 1 Delbert Dunaway     | 5-16          | €cr             | --            | --            | --   | 3070           | Pool   | RT    |                       |
| 846                  | Cardington | L 20             | 400 SL 150 EL   |          | Lynn O. & G. Co.           | 1 C. E. Welch         |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 847                  | Harmony    | L 13 (3Q)        | 360 SL 550 EL   |          | Development Assoc.         | 1 E. A. West          | 2-14          | €cr             | Acid          | --            | 225  | 3442           | Pool   | RT    |                       |
| 848                  | Cardington | S 23             | 1445 SL 1385 WL | NW       | Perry Fulk, Sr.            | 3-A Sansotta          | 2-28          | €cr             | Acid          | --            | 300  | 3110           | Pool   | RT    |                       |
| 849                  | Cardington | S 23             | 500 NL 1222 WL  | NW       | Perry Fulk, Sr.            | 5-A Sansotta          | 2-10          | €cr             | Acid          | --            | 600  | 3135           | Pool   | RT    |                       |
| 850                  | Cardington | S 23             | 495 NL 910 WL   | NW       | Howard D. Atha             | 3 A. & T. Coder       | 2-12          | €cr             | Acid          | --            | 200  | 3076           | Pool   | RT    |                       |
| 851                  | Cardington | S 27             | 350 NL 2575 EL  |          | Mid-Ohio O. & G. Devel.    | 1 Gandee              |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 852                  | Cardington | S 23             | 1980 NL 50 WL   | SW       | C. & B. Schwinn            | 1 C. & F. Bean        | 2-21          | €cr             | --            | --            | --   | 3151           | Pool   | RT    |                       |
| 853                  | Cardington | S 27             | 180 NL 255 EL   | NW       | Halcarr Dlg. Co.           | 1 L. & R. Longworth   |               |                 |               |               |      |                | Pool   | RT    | Canceled              |
| 854                  | Cardington | S 22             | 170 SL 28 WL    | SE       | Halcarr Dlg. (J. D. Black) | 1 W. & P. Jenkins     | 4-30          | €cr             | Acid          | --            | 72   | 3140           | Pool   | RT    |                       |
| 855                  | Cardington | L 8              | 57 NL 1195 EL   |          | Rebel Dlg. Co.             | 1 Blakley-Curl        | 3-6           | €cr             | --            | --            | --   | 3170           | Pool   | RT    |                       |
| 856                  | Cardington | S 17             | 261 NL 255 EL   | NE       | Rebel Dlg. Co.             | 1 Stansbery           |               |                 |               |               |      |                | Pool   | RT    | Canceled              |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator                     | Well No. | Lease                     | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|------------|---------------|-----------------|------------------------------|----------|---------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |            |               |                 |                              |          |                           |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |            |               |                 |                              |          |                           |            |              |            |               |      |             |        |       |                    |
| 857                  | Bennington | L 2 (2Q)      | 750 SL 3500 EL  | Clinton Oil Co.              | 2        | J. & R. Estey             | 3-9        | €cr          | --         | --            | --   | 3506        | Pool   | CT    | Canceled           |
| 858                  | Cardington | S 22          | 2260 NL 2585 EL | SE H. D. Collins             | 1        | Henthorne-Click           |            |              |            |               |      |             | Pool   | RT    |                    |
| 859                  | Gilead     | S 14-S        | 735 SL 60 EL    | NW Don Baines Dlg. Co.       | 1        | Maxwell-McThena           | 2-16       | €cr          | --         | --            | --   | 3306        | Pool   | RT    |                    |
| 860                  | Gilead     | S 27          | 2230 SL 1400 WL | SW Royal O. & G.; Irvin Prod | 1        | R. & H. Long              | 3-13       | €cr          | Acid       | --            | --   | 20          | 3157   | Pool  |                    |
| 861                  | Cardington | S 28          | 445 NL 605 EL   | NE Midland Dlg. Co.          | 1        | S. & P. Maceyko           | 2-15       | €cr          | --         | --            | --   | 3161        | Pool   | RT    |                    |
| 862                  | Cardington | L 7-E         | 234 SL 1090 WL  | L. H. Service Pet. Co.       | 1        | H. H. Denton              | 3-23       | €cr          | --         | --            | --   | 3194        | Pool   | CT    | Canceled           |
| 863                  | Peru       | L 23 (3Q)     | 550 NL 600 EL   | W. E. Shrider                | 1        | Miley-Fleming             | 2-3        | €cr          | --         | --            | --   | 3141        | NWC    | CT    |                    |
| 864                  | Cardington | S 22          | 1190 NL 900 EL  | NE Ashland O. & R. Co.       | 3        | V. G. Ullom               | 2-15       | €cr          | Acid       | --            | --   | 800         | 3192   | Pool  |                    |
| 865                  | Cardington | S 22          | 660 NL 680 EL   | NE Ashland O. & R. Co.       | 4        | V. G. Ullom               |            |              |            |               |      |             | Pool   | RT    |                    |
| 866                  | Cardington | S 23          | 2320 NL 690 EL  | NE Ashland O. & R. Co.       | 2        | Joe Mosher                | 3-8        | €cr          | Acid       | --            | --   | 100         | 3253   | Pool  |                    |
| 867                  | Gilead     | S 3           | 940 NL 1235 EL  | NE Keillor & Clark           | 1        | T. & L. Rice(Lyons)       |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 868                  | Cardington | L 7-E         | 440 SL 535 WL   | Hobson Oil Co.               | 1-A      | C. E. Swartz              |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 869                  | Cardington | L 8           | 150 NL 273 WL   | J. Kelley & E. Morland       | 1        | Detwiler                  | 4-27       | €cr          | --         | --            | --   | 3077        | Pool   | RT    |                    |
| 870                  | Lincoln    | L 21 (1Q)     | 1010 NL 1433 WL | Kuzmich & Mays               | 1        | Ralph Heacock             | 2-29       | €cr          | --         | --            | --   | 3200        | Pool   | RT    |                    |
| 871                  | Lincoln    | L 21 (1Q)     | 1366 NL 1683 WL | Kuzmich & Mays               | 2        | Ralph Heacock             |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 872                  | Lincoln    | L 22 (1Q)     | 100 NL 1610 WL  | Kuzmich & Mays               | 1-A      | Dean Cusick               | 2-16       | €cr          | --         | --            | --   | 3210        | Pool   | RT    |                    |
| 873                  | Lincoln    | L 21 (1Q)     | 910 NL 1433 WL  | Kuzmich & Mays               | 2-A      | Dean Cusick               | 2-?        | €cr          | --         | --            | --   | 3210        | Pool   | RT    |                    |
| 874                  | Cardington | S 28          | 530 NL 1620 WL  | Woodson;Diamond & Son        | 1        | W. Beatty                 | 2-17       | €cr          | Nat?       | --            | --   | 50          | 3101   | Pool  | RT                 |
| 875                  | Gilead     | S 35-E        | 600 NL 600 EL   | SE Southern Triangle Oil     | 1        | W. Ashbaugh               | 3-1        | €cr          | Acid       | --            | --   | 3338        | Pool   | RT    | PB to Omc          |
| 876                  | Gilead     | S 18          | 1325 NL 990 WL  | NW Southern Triangle Oil     | 2        | D. Burns                  | 2-16       | €cr          | --         | --            | --   | 3475        | Pool   | RT    |                    |
| 877                  | Westfield  | L 24 (1Q)     | 150 SL 600 EL   | Jerry D. Black               | 1        | A. & M. Somerlot          |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 878                  | Cardington | L 9           | 1122 SL 592 WL  | Petrol Oil Well Dlg.         | 1        | R. Hollingsworth          |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 879                  | Canaan     | S 15          | 930 NL 810 WL   | SE Petroc Co.                | 1        | H. & L. Wren              |            |              |            |               |      |             | NWC    | CT    | Canceled           |
| 880                  | Cardington | L 8           | 17 SL 1636 EL   | J. R. Swingle                | 1        | Teasdale                  | 4-9        | €cr          | --         | --            | --   | 3131        | Pool   | CT    |                    |
| 881                  | Gilead     | S 23-N        | 1630 NL 990 WL  | NW M. L. Vance Dlg. Co.      | 1        | Jones & Younger           | 3-24       | €cr          | --         | --            | --   | 3383        | NWC    | RT    |                    |
| 882                  | Cardington | L 9           | 163 NL 2000 EL  | Miller & Speake Dlg.         | 1        | Joan Kelley               |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 883                  | Gilead     | S 2-E         | 710 SL 802 EL   | NW Miller & Speake Dlg.      | 1        | Malarky                   | 3-11       | €cr          | --         | --            | --   | 3350        | Pool   | RT    |                    |
| 884                  | Cardington | S 22          | 810 NL 1005 WL  | SW J. L. Lawrence            | 1        | D. & H. Landon            | 2-19       | €cr          | --         | --            | --   | 3125        | Pool   | RT    |                    |
| 885                  | Gilead     | S 1           | 1295 NL 1475 WL | NW T. Weed; K. D. Brown      | 1        | Boy Scouts                | 3-25       | €cr          | --         | --            | --   | 3293        | Pool   | CT    |                    |
| 886                  | Gilead     | S 1           | 905 NL 1710 WL  | NW T. Weed; K. D. Brown      | 2        | Boy Scouts                |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 887                  | Gilead     | S 3           | 990 SL 766 EL   | NW Ideal Dlg. Co.            | A-3      | E. T. Snyder              | 3-1        | €cr          | --         | --            | --   | 3200        | Pool   | RT    |                    |
| 888                  | Cardington | S 23          | 960 SL 1205 EL  | NW Robert Tatum(Mammoth)     | 2        | J. & M. Mosher            | 2-16       | €cr          | Acid       | --            | --   | 120         | 3198   | Pool  | RT                 |
| 889                  | Cardington | S 23          | 650 SL 80 WL    | NW Mammoth Prod. Co.         | 2        | J. & R. Patterson         | 3-13       | €cr          | Acid       | --            | --   | 600         | 3078   | Pool  | RT                 |
| 890                  | Gilead     | S 2-W         | 300 SL 600 WL   | NW Comanche Oil Co.          | 7-C      | E. G. Brinkman            |            |              |            |               |      |             | Pool   | RT    | Replaced by P-1571 |
| 891                  | Gilead     | S 2-E         | 1100 SL 600 WL  | NW Comanche Oil Co.          | 8-C      | E. G. Brinkman            |            |              |            |               |      |             | Pool   | RT    | Replaced by P-1572 |
| 892                  | Gilead     | S 2-W         | 553 NL 86 WL    | SW Comanche Oil Co.          | 2        | Gale Westbrook            | 2-14       | €cr          | Acid       | --            | --   | 400         | 3198   | Pool  | RT                 |
| 893                  | Cardington | L 20          | 845 SL 209 EL   | Frank M. Dever               | 1        | K. Heacock                | 2-26       | €cr          | --         | --            | --   | 3163        | Pool   | RT    |                    |
| 894                  | Cardington | S 6           | 680 NL 185 EL   | SW David Law                 | 1        | R. E. Bailey              | 4-8        | €cr          | --         | --            | --   | 2947        | Pool   | CT    |                    |
| 895                  | Cardington | L 9           | 35 NL 232 WL    | J. R. Swingle                | 1        | Nora Daniels              |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 896                  | Cardington | L 32          | 10 NL 70 WL     | J. R. Swingle                | 1        | A. Weaver                 | 5-16       | €cr          | --         | --            | --   | 3027        | Pool   | CT    |                    |
| 897                  | Bennington | L 13 (2Q)     | 311 SL 3140 WL  | Killbuck Dlg. Co.            | 2        | H. McMullen               |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 898                  | Gilead     | S 3           | 435 NL 1050 WL  | NE Dalton Dlg. Co.           | 1        | Mt. Gilead Builders, Inc. |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 899                  | Gilead     | S 2-E         | 495 NL 515 EL   | NW Dalton Dlg. Co.           | 5        | Mt. Gilead Shortline RR   | 2-8        | €cr          | Acid       | --            | --   | 100         | 3225   | Pool  | RT                 |
| 900                  | Lincoln    | L 5 (1Q)      | 1180 SL 1430 WL | H. W. Brinkley               | 1        | Elmer Greene              | 6-22       | €cr          | --         | --            | --   | 3317        | Pool   | RT    |                    |
| 901                  | Westfield  | L 10          | 610 NL 122 EL   | H. W. Brinkley               | 1        | Elizabeth Gibson          |            |              |            |               |      |             | FWC    | RT    | Replaced by P-1898 |

## LIST OF OPERATIONS DURING 1964

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|----------------------|------------|---------------|-----------------|----------|--------------------------|--------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|----------|
|                      |            |               |                 |          |                          |                          |            |              |            | MCFGPD        | BOPD |             |        |       |          |
| MORROW COUNTY (con.) |            |               |                 |          |                          |                          |            |              |            |               |      |             |        |       |          |
| 902                  | Cardington | S 22          | 1035 NL 508 EL  | SE       | Donald E. Davis          | 1 M. Yake                | 5-7        | €cr          | Acid       | --            | 70   | 3120        | Pool   | RT    | Canceled |
| 903                  | Cardington | S 22          | 926 NL 492 EL   | SE       | Donald E. Davis          | 2 M. Yake                |            |              |            |               |      |             | Pool   | RT    |          |
| 904                  | Gilead     | S 2-E         | 780 NL 50 WL    | NW       | Dalton Dlg. Co.          | 7 Mt.Gilead Shortline RR | 3-18       | €cr          | --         | --            | --   | 3215        | Pool   | RT    |          |
| 905                  | Bennington | L 13 (2Q)     | 311 SL 2900 WL  |          | Killbuck Dlg. Co.        | 1 H. McMullen            | 4-16       | €cr          | --         | --            | --   | 3500        | Pool   | CT    |          |
| 906                  | Cardington | L 20          | 350 NL 296 WL   |          | Perry Fulk, Sr.          | 1 J. & B. Goble          | 2-14       | €cr          | Acid       | --            | 50   | 3033        | Pool   | RT    |          |
| 907                  | Cardington | S 27          | 191 SL 20 WL    |          | Mammoth Prod. Co.        | 1 Stahl Metal Prod.      | 4-24       | €cr          | --         | --            | --   | 3075        | Pool   | RT    | Canceled |
| 908                  | Harmony    | L 13 (3Q)     | 1323 NL 1448 WL |          | Mammoth Prod. Co.        | 1 Burdette               | 2-22       | €cr          | --         | --            | --   | 3516        | Pool   | RT    |          |
| 909                  | Chester    | S 3 (1Q)      | 330 SL 330 WL   | SW       | Richard Thompson         | 1 C. F. Bunnell          |            |              |            |               |      |             | FWC    | RT    |          |
| 910                  | Lincoln    | L 7 (1Q)      | 400 NL 1275 WL  |          | Perry Fulk, Sr.          | 2 V. L. Nusser           | 2-23       | €cr          | Acid       | --            | 150  | 3340        | Pool   | RT    |          |
| 911                  | Lincoln    | L 7 (1Q)      | 700 NL 1275 WL  |          | Perry Fulk, Sr.          | 3 V. L. Nusser           | 3-2        | €cr          | Acid       | --            | 100  | 3340        | Pool   | RT    |          |
| 912                  | Cardington | S 28          | 217 SL 264 EL   |          | Rebel Dlg. Co.           | 1 M. Danner; R. Clayton  |            |              |            |               |      |             | Pool   | RT    | Canceled |
| 913                  | Harmony    | L 13 (3Q)     | 840 SL 1480 WL  |          | Dee Oil Co.              | 1 R. & V. Parthemer      | 2-27       | €cr          | Acid       | --            | 250  | 3442        | Pool   | RT    |          |
| 914                  | Westfield  | L 8 (1Q)      | 438 NL 125 EL   |          | Mitchell & Donalson      | 1 M. & R. Hartley        | 3-26       | €cr          | --         | --            | --   | 3050        | FWC    | CT    |          |
| 915                  | Harmony    | L 21 (2Q)     | 300 NL 700 EL   |          | Kuzmich & Mays           | 1 R. & D. Headings       | 2-26       | €cr          | --         | --            | --   | 3515        | Out    | RT    |          |
| 916                  | Gilead     | S 2-W         | 55 SL 1770 EL   | NW       | Robert Tatum(H. Collins) | 1 Mohican Construction   | 4-12       | €cr          | Acid       | --            | 83   | 3263        | Pool   | CT    |          |
| 917                  | Chester    | L 22 (3Q)     | 400 SL 500 EL   |          | Tri-State Prod. Co.      | 1 J. & M. Waite          | 2-22       | €cr          | --         | --            | --   | 3813        | FWC    | RT    | Canceled |
| 918                  | Cardington | S 22          | 340 SL 930 WL   | SE       | Sharpley & Ross          | 1 G. & M. Koon           | 3-30       | €cr          | --         | --            | --   | 3150        | Pool   | RT    |          |
| 919                  | Cardington | S 28          | 1010 NL 1300 WL |          | J. L. Coats              | 1 R. Conant              | 10-24      | €cr          | --         | --            | --   | 3030        | Pool   | RT    |          |
| 920                  | Cardington | S 21          | 430 SL 190 EL   | SE       | J. W. Willard            | 1 L. Gibson              |            |              |            |               |      |             | Pool   | CT    |          |
| 921                  | Cardington | S 22          | 1120 SL 740 EL  | SW       | Sharpley & Ross          | 1 A. Heimlich            | 2-22       | €cr          | --         | --            | --   | 3110        | Pool   | RT    |          |
| 922                  | Peru       | L 6 (1Q)      | 1434 SL 1773 EL |          | Robert Travis            | 1 Robson                 | 4-15       | €cr          | --         | --            | --   | 3335        | Pool   | CT    | Canceled |
| 923                  | Gilead     | S 6           | 1040 SL 1433 WL | NW       | Ralph H. Hamblin         | 1 Fred Taylor            |            |              |            |               |      |             | Pool   | CT    |          |
| 924                  | Cardington | L 20          | 1233 SL 838 WL  |          | Crown Pet. Assoc.        | 1 E. L. Heiber           | 3-2        | €cr          | --         | --            | --   | 3103        | Pool   | RT    |          |
| 925                  | Gilead     | S 1           | 1050 NL 1198 WL | SW       | Campanelli Bros.         | 1 Garverich-Slavik       | 2-28       | €cr          | Acid       | --            | 100  | 3244        | Pool   | RT    |          |
| 926                  | Gilead     | S 2-W         | 272 SL 368 EL   | NW       | Campanelli Bros.         | 1 Harless Bending        |            |              |            |               |      |             | Pool   | RT    |          |
| 927                  | Gilead     | S 3           | 55 NL 1200 EL   | NE       | Dalton Dlg. Co.          | 9 Mt.Gilead Shortline RR |            |              |            |               |      |             | Pool   | RT    | Canceled |
| 928                  | Gilead     | S 3           | 285 NL 1055 WL  | NE       | Dalton Dlg. Co.          | 1 Mt. Gilead Builders    |            |              |            |               |      |             | Pool   | RT    |          |
| 929                  | Gilead     | S 3           | 225 NL 1152 WL  | NE       | Dalton Dlg. Co.          | 2 Mt. Gilead Builders    |            |              |            |               |      |             | Pool   | RT    |          |
| 930                  | Gilead     | S 1           | 1314 SL 400 WL  | NW       | John Petrie              | 1 John Petrie            | 6-1        | €cr          | Acid       | --            | 100  | 3297        | Pool   | CT    |          |
| 931                  | Bennington | L 6 (2Q)      | 400 SL 1460 EL  |          | L. B. Jackson Co.        | 1 M. Skaggs              | 4-1        | €cr          | --         | --            | --   | 3683        | Pool   | CT    |          |
| 932                  | Cardington | S 27          | 75 SL 2180 WL   |          | Miller & Speake Dlg.     | 1 L. Maxwell             | 2-23       | €cr          | --         | --            | --   | 3117        | Pool   | RT    | Canceled |
| 933                  | Gilead     | S 2-E         | 425 SL 50 WL    | NW       | Thurlow Weed             | 1 Farm Bureau Co-op.     | 2-24       | €cr          | Acid       | --            | 125  | 3271        | Pool   | RT    |          |
| 934                  | Cardington | S 14          | 50 SL 1385 EL   | SW       | Perry Fulk, Sr.          | 1 C. Philbrook           | 2-19       | €cr          | --         | --            | --   | 3203        | Pool   | RT    |          |
| 935                  | Lincoln    | L 27 (2Q)     | 152 NL 709 EL   |          | Burner-Morgan-Stephens   | 1-A W. & E. LaRoche      | 2-23       | €cr          | --         | --            | --   | 3401        | Pool   | RT    |          |
| 936                  | Cardington | L 8           | 59 NL 317 EL    |          | Mt. Carmel Dlg. Co.      | 1 Bingman & Johnson      |            |              |            |               |      |             | Pool   | RT    |          |
| 937                  | Cardington | L 8           | 300 NL 371 EL   |          | Mt. Carmel Dlg. Co.      | 1 W. Gandee              |            |              |            |               |      |             | Pool   | RT    | Canceled |
| 938                  | Peru       | L 13 (1Q)     | 50 NL 775 EL    |          | Kin-Ark Oil Co.          | 2 L. Howard              | 3-23       | €cr          | Acid       | --            | 430  | 3133        | Pool   | CT    |          |
| 939                  | Gilead     | S 2-E         | 619 SL 985 WL   | NW       | Louis Lottie & Assoc.    | 1 Keeran-Edgel           | 4-15       | €cr          | --         | --            | --   | 3351        | Pool   | CT    |          |
| 940                  | Cardington | L 20          | 143 NL 234 EL   |          | Petrolini Corp.          | 1 H. N. Fate             | 11-15      | €cr          | --         | --            | --   | 3122        | Pool   | CT    |          |
| 941                  | Cardington | L 20          | 741 NL 218 EL   |          | Petrolini Corp.          | 1 P. Spring              |            |              |            |               |      |             | Pool   | CT    |          |
| 942                  | Gilead     | S 35          | 412 SL 491 WL   | SE       | Southern Triangle Oil    | 1 McWilliams             | 4-1        | €cr          | --         | --            | --   | 3362        | Pool   | RT    | Canceled |
| 943                  | Gilead     | S 2-E         | 880 NL 220 WL   | NE       | Southern Triangle Oil    | 1 B. Curtis              | 4-3        | €cr          | --         | --            | --   | 3320        | Pool   | RT    |          |
| 944                  | Gilead     | S 35-E        | 850 SL 758 EL   | SE       | Southern Triangle Oil    | 1 Howard Kline           | 3-13       | €cr          | --         | --            | --   | 3350        | Pool   | RT    |          |
| 945                  | Bennington | L 1 (2Q)      | 1100 NL 2300 EL |          | Consumers Prod. & Devel  | 1 Franklin Adams         | 5-13       | €cr          | --         | --            | --   | 3518        | Pool   | CT    |          |
| 946                  | Peru       | L 14 (1Q)     | 75 NL 1270 EL   |          | Mammoth Prod. Co.        | 1 Alum Creek Church      | 3-28       | €cr          | Acid       | --            | 150  | 3130        | Pool   | CT    |          |



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| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                 | Lease | Date Comp.             | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools    | Remarks |                       |
|----------------------|------------|---------------|-----------------|----------|--------------------------|-------|------------------------|--------------|------------|---------------|------|-------------|--------|----------|---------|-----------------------|
|                      |            |               |                 |          |                          |       |                        |              |            | MCFGPD        | BOPD |             |        |          |         |                       |
| MORROW COUNTY (con.) |            |               |                 |          |                          |       |                        |              |            |               |      |             |        |          |         |                       |
| 947                  | Cardington | S 22          | 672 SL 50 EL    | NE       | Mammoth Prod. Co.        | 2     | R. & R. Green          | 2-22         | €cr        | Acid          | --   | 300         | 3203   | Pool     | RT      |                       |
| 948                  | Cardington | S 23          | 130 NL 1220 WL  | NW       | Mammoth Prod. Co.        | 2     | C. Murphy              | 3-2          | €cr        | Acid          | --   | 250         | 3084   | Pool     | RT      |                       |
| 949                  | Cardington | S 22          | 470 SL 2135 WL  | SW       | C. J. Seibert            | 1     | Maxwell & Stone        | 3-2          | €cr        | --            | --   | --          | 3280   | Pool     | RT      |                       |
| 950                  | Harmony    | L 13 (3Q)     | 1040 SL 1360 WL |          | H. Shaw & R. Armel       | 1     | H. Shaw & R. Armel     | 3-15         | €cr        | Acid          | --   | --          | 3458   | Pool     | RT      |                       |
| 951                  | Harmony    | L 13 (3Q)     | 1040 SL 1010 WL |          | H. Shaw & R. Armel       | 2     | H. Shaw & R. Armel     | 3-17         | €cr        | --            | --   | --          | 3480   | Pool     | RT      |                       |
| 952                  | Lincoln    | S 17          | 1750 SL 1440 EL | NE       | Kin-Ark Oil Co.          | 1     | Floyd Underwood        | 2-21         | €cr        | --            | --   | --          | 3265   | Pool     | RT      |                       |
| 953                  | Cardington | S 4           | 478 SL 1660 EL  | NE       | Ashland O. & R. Co.      | 1     | L. Gillson             | 2-25         | €cr        | Acid          | --   | 240         | 3177   | Pool     | RT      |                       |
| 954                  | Cardington | S 22          | 990 SL 990 EL   | NE       | Ashland O. & R. Co.      | 1     | R. & R. Green          | 2-27         | €cr        | Acid          | --   | 36          | 3184   | Pool     | RT      |                       |
| 955                  | Gilead     | S 34          | 885 NL 790 WL   | SE       | Dalton Dlg. Co.          | 10    | Mt.Gilead Shortline RR |              |            |               |      |             |        | Pool     | RT      | Canceled              |
| 956                  | Gilead     | S 34          | 695 NL 560 WL   | SE       | Dalton Dlg. Co.          | 11    | Mt.Gilead Shortline RR |              |            |               |      |             |        | Pool     | RT      | Canceled              |
| 957                  | Gilead     | S 34          | 500 NL 330 WL   | SE       | Dalton Dlg. Co.          | 12    | Mt.Gilead Shortline RR |              |            |               |      |             |        | Pool     | RT      | Canceled              |
| 958                  | Gilead     | S 34          | 310 NL 95 WL    | SE       | Dalton Dlg. Co.          | 13    | Mt.Gilead Shortline RR |              |            |               |      |             |        | Pool     | RT      | Canceled              |
| 959                  | Westfield  | S 19          | 1248 NL 1920 WL | NW       | Killbuck Dlg. Co.        | 1     | M. & M. Klingel        |              |            |               |      |             |        | FWC      | CT      | Canceled              |
| 960                  | Westfield  | S 19          | 1336 NL 1872 WL | NW       | M. & M. Klingel          | 1-A   | M. & M. Klingel        |              |            |               |      |             |        | Pool     | CT      | Canceled              |
| 961                  | Gilead     | S 25          | 1660 NL 2580 WL | NW       | Robert S. Chappel        | 1     | A. A. Rinehart         | 4-24         | €cr        | --            | --   | --          | 3539   | Pool Out | CT      |                       |
| 962                  | Bennington | L 3 (1Q)      | 990 NL 700 WL   |          | Brasel & Brasel          | 1     | E. B. Ramey            | 3-6          | €cr        | Acid          | --   | 150         | 3775   | Out      | RT      |                       |
| 963                  | Gilead     | S 3           | 1350 SL 600 EL  | NE       | Navor Proctor            | 1     | B. & B. Holtrey        | 7-24         | €cr        | Acid          | --   | --          | 3164   | Pool     | RT      |                       |
| 964                  | Cardington | S 22          | 1271 SL 50 EL   | NE       | Mammoth Prod. Co.        | 3     | R. & R. Green          | 3-4          | €cr        | Acid          | --   | 480         | 3204   | Pool     | RT      |                       |
| 965                  | Gilead     | S 2-E         | 325 NL 1102 EL  | SE       | Ideal Dlg. Co.           | 1     | Porterfield            | 4-15         | €cr        | Acid          | --   | 250         | 3255   | Pool     | RT      |                       |
| 966                  | Gilead     | S 2-E         | 775 NL 675 EL   | SE       | Ideal Dlg. Co.           | 2     | Porterfield            | 4-2          | €cr        | Acid          | --   | 300         | 3234   | Pool     | RT      |                       |
| 967                  | Gilead     | S 2-E         | 605 NL 390 WL   | SE       | Ideal Dlg. Co.           | 3     | Porterfield            | 4-16         | €cr        | Acid          | --   | 150         | 3230   | Pool     | RT      |                       |
| 968                  | Gilead     | L 8           | 50 SL 1420 EL   |          | John Posselius           | 3     | Glenn Jackson          | 2-25         | €cr        | Acid          | --   | 100         | 3340   | Pool     | RT      |                       |
| 969                  | Cardington | S 23          | 1115 SL 1076 WL | NW       | Howard D. Atha           | 4-A   | V. & H. Pietrangelo    |              |            |               |      |             |        | Pool     | RT      | Abd. loc.             |
| 970                  | Bennington | S 12 (3Q)     | 330 SL 330 WL   |          | Brasel & Brasel          | 1     | S. G. Finkbone         | 3-25         | €cr        | Acid          | --   | 25          | 3577   | Pool     | RT      |                       |
| 971                  | Harmony    | L 8 (3Q)      | 75 SL 770 EL    |          | Jack W. Holtz            | 1     | O. & J. Werley         | 3-31         | €cr        | Acid          | --   | 50          | 3539   | Pool     | RT      |                       |
| 972                  | Gilead     | S 27          | 25 SL 780 EL    | NW       | Investment Oil Co.       | 2     | N. Y. Central R. R.    | 3-1          | €cr        | Acid          | --   | 100         | 3170   | Pool     | RT      |                       |
| 973                  | Cardington | S 21          | 1060 SL 940 EL  | SE       | James H. Cassidy         | 1     | Eugene Crum            | 5-2          | €cr        | --            | --   | --          | 3107   | Pool     | CT      |                       |
| 974                  | Lincoln    | L 5 (1Q)      | 650 NL 1780 WL  |          | Sam H. Cassidy           | 1     | Rodney Gale            | 3-15         | €cr        | --            | --   | --          | 3327   | Pool     | RT      |                       |
| 975                  | Cardington | S 22          | 1280 NL 1510 WL | SW       | Rudder O. & G. Co.       | 1     | E. M. Heimlich         | 4-3          | €cr        | --            | --   | --          | 3139   | Pool     | CT      |                       |
| 976                  | Cardington | S 23          | 994 SL 520 WL   | NW       | Killbuck Dlg. Co.        | 5     | Smiley-Beam Unit       |              |            |               |      |             |        | Pool     | CT      | Canceled              |
| 977                  | Cardington | S 21          | 755 SL 355 EL   | SE       | Murray McLean            | 1     | A. Heimlich            | 3-23         | €cr        | --            | --   | --          | 3105   | Pool     | RT      |                       |
| 978                  | Cardington | S 21          | 810 SL 75 EL    | SE       | Murray McLean            | 2     | A. Heimlich            |              |            |               |      |             |        | Pool     | RT      | Canceled              |
| 979                  | Gilead     | S 1           | 62 NL 433 WL    | NW       | Mid Ohio O. & G. Devel.  | 1     | Breese-Kinaman         |              |            |               |      |             |        | Pool     | RT      | Canceled              |
| 980                  | Gilead     | S 2-E         | 665 SL 437 EL   | NW       | Mid Ohio O. & G. Devel.  | 1     | W. E. Leasure          |              |            |               |      |             |        | Pool     | RT      | Canceled              |
| 981                  | Gilead     | S 2-E         | 275 NL 565 EL   | NW       | Mid Ohio O. & G. Devel.  | 1     | W. S. White            |              |            |               |      |             |        | Pool     | RT      | Canceled              |
| 982                  | Lincoln    | L 11 (4Q)     | 277 NL 1091 WL  |          | W. H. Patten Dlg. Co.    | 1     | C. & M. Reppert        | 5-23         | €cr        | Acid          | --   | 200         | 3061   | Pool     | CT      | PB to Omc. Gas 50 MCF |
| 983                  | Cardington | S 22          | 347 SL 50 EL    | NE       | Perry Fulk, Sr.          | 3-F   | R. & R. Green          | 2-23         | €cr        | Acid          | --   | 60          | 3122   | Pool     | RT      |                       |
| 984                  | Cardington | S 22          | 555 SL 250 EL   | NE       | Perry Fulk, Sr.          | 4-F   | R. & R. Green          | 3-3          | €cr        | Acid          | --   | 300         | 3117   | Pool     | RT      |                       |
| 985                  | Cardington | S 22          | 1380 SL 2450 WL | SW       | Whetstone Oil Co.        | 1-A   | O. Walker              |              |            |               |      |             |        | Pool     | CT      | Canceled              |
| 986                  | Cardington | S 22          | 1250 SL 2730 WL | SW       | Whetstone Oil Co.        | 2-A   | O. Walker              |              |            |               |      |             |        | Pool     | CT      | Canceled              |
| 987                  | Cardington | S 27          | 203 NL 1880 EL  |          | T. & W. Oil Co.          | 1     | Claytor                | 4-23         | €cr        | --            | --   | --          | 3158   | Pool     | CT      | Canceled              |
| 988                  | Gilead     | S 2-E         | 1200 SL 2400 EL | SE       | Complete General Constr. | 2     | Diocese of Columbus    | 10-9         | €cr        | Acid          | --   | --          | 3218   | Pool     | CT      | Oil 1 BPH Wtr. 4 BPH  |
| 989                  | Gilead     | S 18          | 890 NL 1187 WL  | SE       | Hobson Oil Co.           | 1     | D. Helman              | 3-2          | €cr        | --            | --   | --          | 3540   | Pool     | RT      |                       |
| 990                  | Cardington | S 22          | 60 SL 1680 EL   | SE       | T & W Oil Co.            | 1     | Thompson               | 3-9          | €cr        | --            | --   | --          | 3135   | Pool     | RT      |                       |
| 991                  | Cardington | S 22          | 210 SL 1680 EL  | SE       | T & W Oil Co.            | 1     | Varner                 |              |            |               |      |             |        | Pool     | RT      | Abd. loc.             |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                   | Lease                     | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|---------------|---------------|-----------------|----------|----------------------------|---------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |               |               |                 |          |                            |                           |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |               |               |                 |          |                            |                           |            |              |            |               |      |             |        |       |                    |
| 992                  | Gilead        | S 27          | 37 SL 1114 WL   | NW       | Affeld-Falese Oil          | 2-A O. & D. Holt          | 3-1        | €cr          | Acid       | --            | 100E | 3164        | Pool   | RT    |                    |
| 993                  | Gilead        | S 27          | 32 SL 1409 WL   | NW       | Affeld-Falese Oil          | 2-B O. & D. Holt          | 3-24       | €cr          | Acid       | --            | 100E | 3136        | Pool   | RT    |                    |
| 994                  | Gilead        | S 27          | 300 SL 865 WL   | NW       | Affeld-Falese Oil          | 3-A O. & D. Holt          | 3-10       | €cr          | Acid       | --            | 100E | 3160        | Pool   | RT    |                    |
| 995                  | Gilead        | S 27          | 245 SL 1089 WL  | NW       | Affeld-Falese Oil          | 4-A O. & D. Holt          | 3-19       | €cr          | Acid       | --            | 100E | 3130        | Pool   | RT    |                    |
| 996                  | Gilead        | S 27          | 23 SL 840 WL    | NW       | Affeld-Falese Oil          | 5-A O. & D. Holt          | 3-29       | €cr          | Acid       | --            | 100E | 3150        | Pool   | RT    |                    |
| 997                  | Gilead        | S 27          | 235 NL 1149 WL  | SW       | Affeld-Falese Oil          | 6-A O. & D. Holt          | 4-1        | €cr          | Acid       | --            | 100E | 3150        | Pool   | RT    |                    |
| 998                  | Cardington    | S 4           | 1960 SL 780 WL  | SW       | Ashland O. & R. Co.        | 1 C. & F. Clinger         | 3-8        | €cr          | Nat?       | --            | 360  | 3114        | Pool   | RT    |                    |
| 999                  | Canaan        | S 34          | 1650 SL 2400 EL | SE       | Ashland O. & R. Co.        | 2 R. & M. Bush            |            |              |            |               |      |             | Pool   | RT    | Replaced by P-1545 |
| 1000                 | Cardington    | S 22          | 1000 NL 1900 WL | NW       | Ashland O. & R. Co.        | 2 M. & R. Hack            | 3-18       | €cr          | Acid       | --            | 620  | 3172        | Pool   | RT    |                    |
| 1001                 | Washington    | S 14-S        | 840 NL 300 EL   | NE       | William Sillick            | 1 George Roach            |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1002                 | Franklin      | L 11 (3Q)     | 100 SL 200 WL   |          | E. L. Whitmer              | 1 R. Hord                 | 5-7        | €cr          | --         | --            | --   | 3702        | Pool   | RT    |                    |
| 1003                 | Cardington    | S 23          | 120 SL 40 WL    | NW       | M.G.Curts(Petro Servicing) | 2 W. & H. Kreis           | 2-29       | €cr          | Acid       | --            | 100  | 3096        | Pool   | RT    | Abd. 11-25         |
| 1004                 | Cardington    | S 14          | 840 SL 585 EL   | SW       | Fulk, Jr. & Schwetz        | 1 L. M. Jones             | 3-2        | €cr          | Acid       | --            | 300  | 3110        | Pool   | RT    |                    |
| 1005                 | Cardington    | S 14          | 1450 SL 200 EL  | SW       | Fulk, Jr. & Schwetz        | 2 L. M. Jones             | 3-13       | €cr          | --         | --            | --   | 3113        | Pool   | RT    |                    |
| 1006                 | Gilead        | S 3           | 625 SL 752 EL   | NW       | Ideal Dlg. Co.             | A-4 E. T. Snyder          | 3-1        | €cr          | --         | --            | --   | 3200        | Pool   | RT    |                    |
| 1007                 | Cardington    | S 21          | 30 SL 838 EL    | SE       | Herbert Newhouse           | 1 H. & E. Scribner        | 4-1        | €cr          | --         | --            | --   | 3085        | Pool   | RT    |                    |
| 1008                 | Harmony       | L 13 (3Q)     | 1050 SL 520 WL  |          | Glenwood Oil Co.           | 1 B. & W. Cheatham        | 3-15       | €cr          | --         | --            | --   | 3446        | Pool   | RT    |                    |
| 1009                 | Gilead        | S 24          | 1620 SL 300 WL  | NE       | W. C. Hurtt Dlg. Co.       | 1 E. & L. Ghent           | 5-15       | €cr          | --         | --            | --   | 3611        | Out    | CT    |                    |
| 1010                 | Gilead        | S 35-E        | 108 SL 625 WL   | SW       | T & W Oil Co.              | 2 Geo. Strait Constr. Co. | 3-3        | €cr          | --         | --            | --   | 3284        | Pool   | RT    |                    |
| 1011                 | Cardington    | S 23          | 974 SL 1895 EL  | SE       | T & W Oil Co.              | 2 J. & B. Hawk            |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1012                 | Cardington    | S 23          | 1247 SL 1685 WL | NW       | Robert Tatum               | 3 J. & M. Mosher          | 2-29       | €cr          | Acid       | --            | 250  | 3298        | Pool   | RT    |                    |
| 1013                 | Canaan        | S 16          | 224 NL 709 WL   | SW       | Dee Bannister              | 1 M. & T. Price           | 4-24       | €cr          | --         | --            | --   | 3071        | FWC    | CT    |                    |
| 1014                 | Cardington    | S 22          | 785 SL 1375 WL  | SW       | R. J. Hunter               | 1 K. & V. Russell         |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1015                 | Cardington    | S 22          | 775 SL 1278 WL  | SW       | R. J. Hunter               | 2 K. & V. Russell         |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1016                 | Gilead        | S 2-E         | 550 NL 955 WL   | NE       | Mid-Ohio O. & G. Devel.    | 1 LeRoy Bador             |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1017                 | Gilead        | S 2-E         | 1165 SL 530 WL  | NW       | Mid-Ohio O. & G. Devel.    | 1 S. E. Conkle            |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1018                 | Bennington    | L 13 (3Q)     | 300 NL 1373 WL  |          | Robert Wray                | 1 J. & B. McBee           |            |              |            |               |      |             | FWC    | RT    | Replaced by P-1388 |
| 1019                 | Peru          | L 13 (3Q)     | 1000 NL 50 EL   |          | Clinton Oil Co.            | 1 Rausch & Jordan         | 3-20       | €cr          | Acid       | --            | 180  | 3151        | Pool   | CT    |                    |
| 1020                 | Gilead        | S 27          | 2240 SL 1794 WL | SW       | Royal O. & G.; Irvin Prod. | 2 R. & H. Long            | 3-13       | €cr          | Acid       | --            | 20   | 3157        | Pool   | CT    |                    |
| 1021                 | Gilead        | S 27          | 1990 SL 1680 WL | SW       | Royal O. & G.; Irvin Prod. | 3 R. & H. Long            |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1022                 | Gilead        | S 27          | 93 SL 1835 WL   | NW       | Royal O. & G.; Irvin Prod. | 2 L. W. Miller            | 3-21       | €cr          | Acid       | --            | --   | 3276        | Pool   | CT    |                    |
| 1023                 | Cardington    | S 22          | 795 SL 1040 EL  | SW       | Don Baines Dlg. Co.        | 1 Hart Oil Co.            | 3-5        | €cr          | --         | --            | --   | 3085        | Pool   | RT    |                    |
| 1024                 | Gilead        | S 15          | 960 SL 970 WL   | SE       | Don Baines Dlg. Co.        | 1-A J. Lewis              | 3-8        | €cr          | Acid       | --            | 400  | 3149        | Pool   | RT    |                    |
| 1025                 | Cardington    | S 4           | 630 SL 330 EL   | NE       | Don Baines Dlg. Co.        | 2 N. Clinger              |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1026                 | Cardington    | S 28          | 230 NL 755 EL   | NW       | Perry Fulk, Sr.            | 1 E. & N. Linstedt        | 2-29       | €cr          | --         | --            | --   | 3010        | Pool   | RT    |                    |
| 1027                 | S. Bloomfield | S 24          | 118 NL 68 EL    | NW       | G. & L. Higgins            | 1 L. & M. Higgins         |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1028                 | Cardington    | L 8           | 31 SL 728 EL    |          | Charles J. Seibert         | 1 R. & E. Slack           |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1029                 | Cardington    | S 22          | 1395 SL 195 EL  | SE       | Donald E. Davis            | 1 D. E. Davis             | 4-23       | €cr          | Acid       | --            | 140  | 3140        | Pool   | RT    |                    |
| 1030                 | Cardington    | S 22          | 1279 NL 215 EL  |          | Donald E. Davis            | 2 D. E. Davis             | 4-28       | €cr          | Acid       | --            | 120  | 3120        | Pool   | RT    |                    |
| 1031                 | Perry         | S 7           | 200 SL 2540 WL  |          | Astro Pet. & Invest.       | 2 H. A. LeMons            | 4-13       | €cr          | --         | --            | --   | 4120        | Pool   | CT    |                    |
| 1032                 | Perry         | S 7           | 332 SL 1227 WL  | SW       | Astro Pet. & Invest.       | 3 H. A. LeMons            |            |              |            |               |      |             | FWC    | CT    | Replaced by P-1486 |
| 1033                 | Lincoln       | L 32 (1Q)     | 220 NL 80 WL    |          | H. Floyd Faust             | 1 E. Click                | 3-24       | €cr          | Acid       | --            | 200  | 3135        | Pool   | CT    |                    |
| 1034                 | Cardington    | L 9           | 204 NL 500 WL   |          | Hobson Oil; J. Bell        | 1 Cardington School       |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1035                 | Harmony       | L 13 (3Q)     | 250 SL 1450 WL  |          | Lynn O. & G. Co.           | 1 R.Fissell(Tipton-Wian)  | 3-17       | €cr          | Acid       | --            | 480  | 3470        | Pool   | RT    |                    |
| 1036                 | Harmony       | L 13 (3Q)     | 1450 NL 1400 WL |          | Lynn O. & G. Co.           | 1 J. R. Morris            | 3-18       | €cr          | --         | --            | --   | 3452        | Pool   | RT    |                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator             | Well No. | Lease                   | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|---------------|---------------|-----------------|----------------------|----------|-------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |               |               |                 |                      |          |                         |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |               |               |                 |                      |          |                         |            |              |            |               |      |             |        |       |                    |
| 1037                 | Harmony       | L 13 (3Q)     | 1450 NL 1010 WL | Lynn O. & G. Co.     | 2        | John R. Morris          |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1038                 | Gilead        | S 2-E         | 1210 NL 575 WL  | Pyramid Oil Co.      | 1        | John Hobson             |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1039                 | Gilead        | S 3           | 200 NL 1120 WL  | Pyramid Oil Co.      | 1        | R. L. Sipe              | 3-12       | €cr          | --         | --            | --   | 3263        | Pool   | RT    |                    |
| 1040                 | Cardington    | S 28          | 895 NL 620 EL   | Frieda Roach         | 1        | Leona Horn              |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1041                 | Cardington    | L 8           | 60 SL 490 WL    | Frieda Roach         | 1        | Jack Goble              | 3-22       | €cr          | --         | --            | --   | 3106        | Pool   | RT    |                    |
| 1042                 | Cardington    | S 23          | 1255 SL 1120 WL | Ralph C. Halbert     | 5        | Virgil Pietranglo       |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1043                 | Cardington    | S 23          | 1195 NL 1035 WL | Ralph C. Halbert     | 6        | Virgil Pietranglo       |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1044                 | S. Bloomfield | S 16          | 101 SL 200 EL   | Mamie Nutt           | 1        | Mamie Nutt              |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1045                 | Westfield     | S 12          | 1200 SL 2800 EL | Edman-Brennaman      | 1        | John P. Harrod          |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1046                 | Cardington    | S 22          | 430 SL 1036 WL  | A. Karazin; Twin Oil | 1        | H. H. Denton            | 3-24       | €cr          | --         | --            | --   | 3130        | Pool   | RT    |                    |
| 1047                 | Gilead        | S 34          | 855 SL 99 WL    | Melvin Sharrock      | 1        | Melvin Sharrock         |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1048                 | Gilead        | S 34          | 967 SL 140 WL   | Melvin Sharrock      | 2        | Melvin Sharrock         | 5-26       | €cr          | --         | --            | --   | 3300        | Pool   | CT    |                    |
| 1049                 | Cardington    | S 22          | 2260 NL 2340 EL | Virgil H. Watson     | 1        | Marjorie Curl           | 5-15       | €cr          | --         | --            | --   | 3140        | Pool   | CT    |                    |
| 1050                 | Gilead        | S 3           | 189 NL 1070 WL  | Walter Duncan        | 1        | C. & D. Calvin          |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1051                 | Gilead        | S 2-E         | 1238 SL 832 WL  | Young & Farrar, Inc. | 1        | E. & M. Bachelder       | 3-9        | €cr          | --         | --            | --   | 3252        | Pool   | RT    |                    |
| 1052                 | Bennington    | L 12 (2Q)     | 330 NL 1430 EL  | Wayne S. Davis       | 1        | C. & W. Reece(Mathias)  | 5-15       | €cr          | --         | --            | --   | 3420        | Out    | CT    |                    |
| 1053                 | Gilead        | S 3           | 550 SL 550 WL   | Comanche & Webb      | 1-C      | Thomas-Harvey-Smith     | 4-17       | €cr          | --         | --            | --   | 3197        | Pool   | CT    |                    |
| 1054                 | Cardington    | L 5-E         | 700 SL 500 WL   | Kin-Ark Oil Co.      | 1        | R. Mattix               | 3-1        | €cr          | Acid       | --            | 120  | 3183        | Pool   | RT    |                    |
| 1055                 | Cardington    | S 21          | 370 SL 850 EL   | W. Kenneth Adair     | 1        | C. & E. Denton          | 3-7        | €cr          | --         | --            | --   | 3100        | Pool   | CT    |                    |
| 1056                 | Cardington    | S 21          | 340 SL 400 EL   | C. Martin            | 1        | C. Long                 | 3-18       | €cr          | --         | --            | --   | 3122        | Pool   | RT    |                    |
| 1057                 | Cardington    | S 22          | 895 SL 1883 EL  | Hopkins & Lott       | 1        | Walter Long             |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1058                 | Cardington    | S 22          | 891 SL 1955 EL  | Hopkins & Lott       | 1        | L. & R. McBride         | 7-13       | €cr          | --         | --            | --   | 3083        | Pool   | RT    |                    |
| 1059                 | Cardington    | S 23          | 1160 SL 400 WL  | C. & B. Schwinn      | 2        | C. & F. Bean            | 3-11       | €cr          | --         | --            | --   | 3110        | Pool   | RT    |                    |
| 1060                 | Cardington    | S 23          | 1120 SL 720 WL  | C. & B. Schwinn      | 3        | C. & F. Bean            | 3-11       | €cr          | --         | --            | --   | 3110        | Pool   | RT    |                    |
| 1061                 | Cardington    | S 21          | 130 SL 260 EL   | W. M. Runyon         | 1        | O. Baker                | 7-14       |              | --         | --            | --   | --          | Pool   | RT    | Lost hole 400 ft.  |
| 1062                 | Cardington    | S 28          | 350 NL 1350 WL  | D. A. Fassas         | 1        | W. Beatty               |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1063                 | Cardington    | S 28          | 750 NL 1300 WL  | Don Baines Dlg. Co.  | 2        | W. Beatty               | 9-7        | €cr          | --         | --            | --   | 3000        | Pool   | RT    |                    |
| 1064                 | Cardington    | S 23          | 558 SL 404 WL   | Don Baines Dlg. Co.  | 1        | C. Maxwell              |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1065                 | Gilead        | S 2-E         | 855 NL 834 EL   | James H. Cassidy     | 1        | Leah Davis(Heimlich)    |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1066                 | Gilead        | S 3           | 1052 SL 505 EL  | Sam Cassidy, Sr.     | A-2      | Ruth Newson             | 2-8        | €cr          | --         | --            | --   | 3230        | Pool   | RT    |                    |
| 1067                 | Gilead        | S 27          | 547 SL 164 WL   | Cheswell Oil Co.     | 1        | Juanita Griffith(Trout) | 4-20       | €cr          | --         | --            | --   | 3176        | Pool   | CT    |                    |
| 1068                 | Gilead        | S 1           | 840 NL 810 WL   | Hobson Oil Co.       | 1        | L. & L. Betz            |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1069                 | Cardington    | L 8           | 62 NL 550 EL    | Hobson Oil Co.       | 1        | E. & D. Lanum           |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1070                 | Peru          | L 7 (1Q)      | 825 NL 1085 WL  | Hobson Oil Co.       | 1        | C. & S. Fowler          |            |              |            |               |      |             | Pool   | RT    | Replaced by P-1106 |
| 1071                 | Harmony       | L 4 (3Q)      | 60 SL 200 EL    | Kelley Oil Co.       | 1        | J. & M. Long            |            |              |            |               |      |             | Out    | RT    | Canceled           |
| 1072                 | Cardington    | S 28          | 280 NL 1780 WL  | Edward A. Mack       | 1        | W. Beatty               | 3-8        | €cr          | --         | --            | --   | 2964        | Pool   | RT    |                    |
| 1073                 | Chester       | L 3 (2Q)      | 55 NL 2290 WL   | Meridian Oil Co.     | 1        | W. & F. Plogher         | 4-15       | €cr          | --         | --            | --   | 3755        | NWC    | RT    |                    |
| 1074                 | Franklin      | S 3           | 90 SL 354 EL    | Mitchell & Donaldson | 1        | D. & M. Peterson        |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1075                 | Cardington    | S 27          | 460 NL 1005 WL  | Mid-Ohio Devel. Co.  | 1        | Dalton Dunham           |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1076                 | Gilead        | S 3           | 200 NL 1275 EL  | Dalton Dlg. Co.      | 1        | National Homes Devel.   |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1077                 | Gilead        | S 2           | 400 NL 34 WL    | Dee Oil Co.          | 1        | J. Haynes               | 3-20       | €cr          | --         | --            | --   | 3334        | Pool   | RT    |                    |
| 1078                 | Cardington    | S 22          | 975 SL 2075 EL  | Dee Oil Co.          | 1        | Jacob Myers             |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1079                 | Cardington    | S 22          | 975 SL 2310 EL  | Dee Oil Co.          | 2        | Jacob Myers             |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1080                 | Harmony       | L 13 (3Q)     | 969 SL 1522 WL  | Prospectors, Inc.    | 1        | W. & E. Gregory         | 3-19       | €cr          | --         | --            | --   | 3450        | Pool   | RT    |                    |
| 1081                 | Harmony       | L 13 (3Q)     | 940 SL 1010 WL  | Prospectors, Inc.    | 2        | W. & E. Gregory         | 3-21       | €cr          | --         | --            | --   | 3448        | Pool   | RT    |                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator                     | Well No. | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks  |
|----------------------|---------------|---------------|-----------------|------------------------------|----------|------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--|
|                      |               |               |                 |                              |          |                        |            |              |            | MCFGPD        | BOPD |             |        |       |  |
| MORROW COUNTY (con.) |               |               |                 |                              |          |                        |            |              |            |               |      |             |        |       |  |
| 1082                 | Chester       | L 1-W (1Q)    | 330 NL 375 EL   | Prospectors, Inc.            | 1        | K. & M. Mosher         | 6-17       | €cr          | --         | --            | --   | 3935        | FWC    | CT    | Replaced by P-1611<br>Replaced by P-1612<br>Canceled |
| 1083                 | Chester       | L 1-W (1Q)    | 330 NL 990 EL   | Prospectors, Inc.            | 2        | K. & M. Mosher         |            |              |            |               |      |             | Pool   | CT    |  |
| 1084                 | N. Bloomfield | S 28          | 990 NL 990 EL   | Prospectors, Inc.            | 1        | J. C. Smith            |            |              |            |               |      |             | FWC    | CT    |  |
| 1085                 | Gilead        | S 29          | 990 NL 990 WL   | Prospectors, Inc.            | 1        | Raymond West           |            |              |            |               |      |             | FWC    | CT    |  |
| 1086                 | Bennington    | S 20          | 330 SL 330 WL   | Prospectors, Inc.            | 1        | W. & G. Bennett        | 5-1        | €cr          | --         | --            | --   | 3713        | Pool   | CT    |  |
| 1087                 | Cardington    | S 23          | 180 SL 780 WL   | NW Ashland O. & R. Co.       | 3        | F. & L. Patterson      | 3-6        | €cr          | Acid       | --            | 660  | 3206        | Pool   | RT    | Replaced by P-1368                                   |
| 1088                 | Cardington    | S 23          | 1740 NL 740 EL  | NE Ashland O. & R. Co.       | 3        | Joe Mosher             |            |              |            |               |      |             | Pool   | RT    |  |
| 1089                 | Gilead        | S 26-W        | 660 NL 899 EL   | NE Ashland O. & R. Co.       | 1        | J. H. Kelly            | 3-9        | €cr          | Acid       | --            | 108  | 3294        | Pool   | RT    |  |
| 1090                 | Canaan        | S 29          | 640 NL 610 EL   | NE Ashland O. & R. Co.       | 1        | M. & S. Payne          |            |              |            |               |      |             | Pool   | RT    | Replaced by P-1834                                   |
| 1091                 | Gilead        | S 2-E         | 641 SL 365 EL   | SE M. K. Miller; D. Claypool | 3        | Claypool Rental Co.    |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 1092                 | Gilead        | S 2-E         | 812 SL 823 EL   | SE M. K. Miller; D. Claypool | 4        | Claypool Rental Co.    |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 1093                 | Gilead        | S 24-S        | 95 NL 245 WL    | NW Moore; Lake Shore P. L.   | 1        | J. & E. Vaughn         | 3-2        | €cr          | --         | --            | --   | 3400        | Pool   | RT    | Canceled<br>Abd. loc.                                |
| 1094                 | Gilead        | S 23-S        | 620 NL 800 WL   | NW Don Baines Dlg. Co.       | 1        | W. Carr                | 3-8        | €cr          | --         | --            | --   | 3290        | Pool   | RT    |  |
| 1095                 | Cardington    | S 22          | 710 SL 480 WL   | SW Miro Dlg. Co.             | 1        | J. & M. Snyder         |            |              |            |               |      |             | Pool   | CT    |  |
| 1096                 | Cardington    | L 8           | 270 SL 700 WL   | SW Miro Dlg. Co.             | 1        | S. Eastep              |            |              |            |               |      |             | Pool   | CT    |  |
| 1097                 | Lincoln       | L 32 (1Q)     | 120 NL 1370 WL  | Jenkins Engineering          | 4        | Virgil Denton          | 4-6        | €cr          | --         | --            | --   | 3228        | Pool   | CT    |  |
| 1098                 | Peru          | L 12 (1Q)     | 550 NL 400 EL   | W. Garrison                  | 1        | E. Pinkerman           |            |              |            |               |      |             | Out    | RT    | Canceled   |
| 1099                 | Cardington    | S 22          | 790 SL 2225 WL  | SW Charles J. Seibert        | 1        | Cardington Library     |            |              |            |               |      |             | Pool   | RT    | Canceled   |
| 1100                 | Cardington    | S 22          | 390 SL 910 WL   | SW Charles J. Seibert        | 1        | Ebert-Fiant            | 4-3        |              | --         | --            | --   | --          | Pool   | RT    | Discontinued 868 ft.                                 |
| 1101                 | Cardington    | L 8           | 380 SL 2070 EL  | SW C. J. Seibert; C. Winn    | 1        | W. & A. Burgraff       | 3-10       | €cr          | --         | --            | --   | 3090        | Pool   | RT    |  |
| 1102                 | Gilead        | S 15-S        | 750 NL 200 EL   | NW Dynamic Mineral & Devel.  | 1        | S. & P. Shaffer        | 4-28       | €cr          | --         | --            | --   | 3262        | Pool   | CT    | Oil 6 BPD Abd. 9-16<br>Abd. loc.                     |
| 1103                 | Cardington    | L 8           | 100 SL 1015 WL  | SW Mike Bealer               | 1        | D. D. Dunham           | 3-8        | €cr          | --         | --            | --   | 3090        | Pool   | RT    |  |
| 1104                 | Cardington    | S 27          | 150 NL 2120 EL  | NW Rebel Dlg. Co.            | 1        | P. C. Jones            | 3-9        | €cr          | --         | --            | --   | 3110        | Pool   | RT    |  |
| 1105                 | Gilead        | S 1           | 396 SL 900 WL   | NW Frank O. Cox              | 1        | R. F. Shaffer          |            |              |            |               |      |             | Pool   | CT    |  |
| 1106                 | Peru          | L 7 (1Q)      | 825 NL 1085 WL  | SW Smith-Werner Pet.         | 1        | C. & S. Fowler         | 4-24       | €cr          | --         | --            | --   | 3259        | Pool   | CT    |  |
| 1107                 | Gilead        | S 3           | 1280 NL 375 EL  | NE Hobson Oil Co.            | 1        | William Foster         | 4-24       | €cr          | Acid       | --            | 100  | 3169        | Pool   | CT    | Canceled<br>Canceled<br>Canceled                     |
| 1108                 | Gilead        | S 1           | 1470 SL 793 WL  | NW Hobson Oil Co.            | 1        | F. & M. Strait         | 5-5        | €cr          | --         | --            | --   | 3300        | Pool   | CT    |  |
| 1109                 | Gilead        | S 2-E         | 1212 SL 812 WL  | NW Hobson Oil Co.            | 1        | C. H. Patzer           |            |              |            |               |      |             | Pool   | CT    |  |
| 1110                 | Gilead        | S 14          | 1390 SL 1300 WL | NW Hobson Oil Co.            | 1        | W. Shipley             |            |              |            |               |      |             | Pool   | CT    |  |
| 1111                 | Westfield     | L 11 (1Q)     | 640 NL 75 EL    | SW Hobson Oil Co.            | 1        | F. Smith               |            |              |            |               |      |             | FWC    | CT    |  |
| 1112                 | Gilead        | S 14          | 1404 NL 1657 WL | SW Hobson Oil Co.            | 1        | S. & E. Gear           |            |              |            |               |      |             | Out    | CT    | Canceled   |
| 1113                 | Gilead        | S 1           | 732 SL 374 EL   | NW Hobson Oil Co.            | 1        | H. Shaffer             |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 1114                 | Gilead        | S 1           | 1909 NL 100 EL  | NW Hobson Oil Co.            | 1        | L. Meckley             |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 1115                 | Cardington    | L 8           | 673 SL 1058 EL  | SW Hobson Oil Co.            | 1        | Charles Wilson         |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 1116                 | Cardington    | S 22          | 467 NL 330 EL   | SW Hobson Oil Co.            | 1        | L. Lefever             |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 1117                 | Cardington    | L 7-E         | 450 NL 400 EL   | SW Hobson Oil Co.            | 1        | V. Shaw                |            |              |            |               |      |             | Pool   | CT    | Canceled   |
| 1118                 | Gilead        | S 1           | 450 NL 665 WL   | NW James Gallagher           | 1        | James Gallagher        |            |              |            |               |      |             | Pool   | RT    | Canceled   |
| 1119                 | Westfield     | S 19          | 780 NL 760 WL   | SW Petrolini Corp.           | 1        | E. Foust               |            |              |            |               |      |             | FWC    | CT    | Discontinued 65 ft.                                  |
| 1120                 | Cardington    | S 22          | 420 SL 670 WL   | SW R. E. Williams            | 1        | R. & R. Coliman        | 6-17       | €cr          | --         | --            | --   | 3129        | Pool   | RT    |  |
| 1121                 | Franklin      | L 19 (3Q)     | 500 SL 850 EL   | SW Tri-State Prod. Co.       | 2        | Morrow Electric Co-Op. | 3-21       | €cr          | Acid       | 675           | 5    | 3723        | Pool   | RT    |  |
| 1122                 | Cardington    | L 10          | 50 NL 1270 EL   | SW Burgin Prod. Co.          | 1        | F. Sherman             | ?          |              | --         | --            | --   | --          | Pool   | CT    | Lost hole 400 ft.                                    |
| 1123                 | Cardington    | S 28          | 385 SL 2305 WL  | NE P. F. Mattaliano          | 1        | Bender & Foreman       | 3-7        | €cr          | --         | --            | --   | 3104        | Pool   | RT    | Canceled<br>Canceled<br>Canceled                     |
| 1124                 | Cardington    | L 8           | 40 SL 130 WL    | NE Frank O. Cox              | 1        | Jack Goble             |            |              |            |               |      |             | Pool   | RT    |  |
| 1125                 | Cardington    | S 28          | 480 SL 295 EL   | NE Frank O. Cox              | 1        | Chester Ullom          |            |              |            |               |      |             | Pool   | RT    |  |
| 1126                 | Cardington    | S 28          | 550 NL 295 EL   | NE Frank O. Cox              | 2        | Chester Ullom          |            |              |            |               |      |             | Pool   | RT    |  |

## LIST OF OPERATIONS DURING 1964

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|----------------------|------------|---------------|-----------------|----------|----------|---------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |            |               |                 |          |          |                           |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |            |               |                 |          |          |                           |            |              |            |               |      |             |        |       |                    |
| 1127                 | Cardington | L 20          | 860 SL 550 EL   |          | 1        | V. Creasan                | 3-4        | €cr          | --         | --            | --   | 3099        | Pool   | RT    |                    |
| 1128                 | Lincoln    | L 7 (1Q)      | 388 NL 1270 EL  |          | 3        | V. F. Blakely             | 3-6        | €cr          | Acid       | --            | 100  | 3306        | Pool   | RT    |                    |
| 1129                 | Cardington | S 22          | 809 SL 65 WL    | SE       | 1        | J. & B. Strine            |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1130                 | Cardington | S 22          | 221 NL 1122 WL  | SW       | 1        | F. & R. Zerby             |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1131                 | Westfield  | S 19          | 740 SL 1542 WL  | NW       | 1        | R. E. Horney              |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1132                 | Harmony    | L 13 (3Q)     | 1323 NL 1622 WL |          | 2        | E. & A. Davis             |            |              |            |               |      |             | Pool   | RT    | Data under P-650   |
| 1133                 | Westfield  | S 19          | 1200 NL 500 WL  | NE       | 2        | Vernon Trimmer, Jr.       |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1134                 | Cardington | S 28          | 302 NL 325 EL   | NE       | 1        | Joe Merriman              |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1135                 | Chester    | L 6-W (1Q)    | 2400 SL 1220 WL |          | 1        | H. & F. Lane              |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1136                 | Chester    | L 6-W (1Q)    | 400 SL 1100 WL  |          | 1        | G. & V. Bradley           |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1137                 | Chester    | L 8 (2Q)      | 1030 SL 70 EL   |          | 1        | Carl Davis                |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1138                 | Gilead     | S 36          | 495 SL 537 WL   | SW       | 1        | Honaker                   | 4-21       | €cr          | --         | --            | --   | 3292        | Pool   | RT    |                    |
| 1139                 | Chester    | L 6-W (1Q)    | 2800 SL 1480 WL |          | 1        | J. Denman                 |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1140                 | Chester    | L 9 (2Q)      | 470 NL 680 EL   |          | 1        | M. Williams               |            |              |            |               |      |             | FWC    | CT    | Canceled           |
| 1141                 | Cardington | S 22          | 580 SL 580 WL   | SE       | 1        | Shipman                   | 5-16       | €cr          | --         | --            | --   | 3145        | Pool   | CT    |                    |
| 1142                 | Cardington | S 22          | 697 SL 340 WL   | SW       | 1        | Zolman & Snyder           | 3-28       | D            | --         | --            | --   | --          | Pool   | RT    | Lost hole 314 ft.  |
| 1143                 | Gilead     | S 2           | 100 SL 100 WL   | NW       | 2        | Farm Bureau Co-Op.        | 3-11       | €cr          | --         | --            | --   | 3262        | Pool   | RT    |                    |
| 1144                 | Gilead     | S 35-E        | 550 SL 430 EL   | SW       | 1        | K. & B. Graham            |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1145                 | Lincoln    | L 5 (1Q)      | 715 SL 605 EL   |          | 1        | Willard Martin            |            |              |            |               |      |             | Out    | RT    | Canceled           |
| 1146                 | Cardington | S 22          | 790 NL 100 EL   | NE       | 2        | V. Ullum                  | 3-16       | €cr          | --         | --            | --   | 3201        | Pool   | RT    |                    |
| 1147                 | Cardington | L 32          | 640 SL 50 WL    |          | 1        | T. Hacker                 | 4-15       | D            | --         | --            | --   | --          | Pool   | RT    | Lost hole 458 ft.  |
| 1148                 | Westfield  | S 12          | 330 SL 1000 WL  | SE       | 1        | L. M. Pine                |            |              |            |               |      |             | FWC    | RT    | Replaced by P-1365 |
| 1149                 | Cardington | S 21          | 61 SL 597 EL    | SE       | 1        | Harold Maine              |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1150                 | Cardington | S 21          | 658 SL 768 EL   | SE       | 1        | Ernest Russell            |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1151                 | Gilead     | S 36          | 130 SL 725 WL   | SW       | 1        | Virgil Stotts             |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1152                 | Gilead     | S 2-E         | 1237 SL 1314 EL | NW       | 1        | Don Covert                |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1153                 | Gilead     | S 3           | 260 SL 180 EL   | NW       | 2        | Spencer-Frayer            | 6-23       | €cr          | Acid       | --            | 85   | 3174        | Pool   | CT    |                    |
| 1154                 | Gilead     | S 3           | 330 SL 470 EL   | NW       | 3        | Spencer-Frayer            | 6-14       | €cr          | Nat?       | --            | 40   | 3193        | Pool   | CT    | Abd. 10-19         |
| 1155                 | Gilead     | S 3           | 90 SL 549 EL    | NW       | 4        | Spencer-Frayer            |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1156                 | Gilead     | S 35-E        | 1590 NL 1535 WL | NE       | 1        | K. W. Kubbs               |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1157                 | Cardington | S 22          | 1620 NL 270 EL  | SE       | 1        | Riverview Parkway         | 3-16       | €cr          | --         | --            | 260  | 3161        | Pool   | RT    |                    |
| 1158                 | Cardington | S 22          | 254 SL 1029 EL  | SW       | 1        | Powers-Haycock-Hodge      |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1159                 | Cardington | S 22          | 820 NL 1339 WL  | SW       | 1        | B. & D. Ocker             |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1160                 | Cardington | S 27          | 295 SL 1850 WL  |          | 1        | McCullough-Markley-Miller |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1161                 | Cardington | S 22          | 1253 NL 667 EL  | SW       | 1        | Lamson-Rhineberger        |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1162                 | Cardington | S 27          | 85 SL 2885 EL   |          | 1        | R. R. Westbrook           |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1163                 | Cardington | S 22          | 138 SL 195 EL   | SW       | 1        | VanSickle-Brake-Wasson    |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1164                 | Cardington | L 8           | 200 NL 1240 EL  |          | 1        | F. & L. Coulter           |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1165                 | Cardington | S 27          | 235 NL 1740 WL  |          | 1        | Hall-Stone                |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1166                 | Cardington | S 22          | 240 SL 195 EL   | SW       | 1        | Howard-Van Houten         |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1167                 | Cardington | S 22          | 300 SL 721 EL   | SE       | 1        | Strohl-Powers             |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1168                 | Cardington | S 22          | 692 SL 750 WL   | SW       | 1        | Thomas-Frizzell-Willits   |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1169                 | Cardington | S 22          | 550 SL 3080 EL  | SE       | 1        | Lindsay-Walter            |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1170                 | Gilead     | S 35-E        | 253 SL 1818 WL  | SW       | 1        | H. & C. McFarlin          |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1171                 | Gilead     | S 3           | 1155 SL 220 EL  | NW       | 1        | F. W. Spencer             |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |

LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator                  | Well No.       | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |          |      |      |      |                    |          |  |
|----------------------|---------------|---------------|-----------------|---------------------------|----------------|------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|----------|------|------|------|--------------------|----------|--|
|                      |               |               |                 |                           |                |                        |            |              |            | MCFGPD        | BOPD |             |        |       |                    |          |      |      |      |                    |          |  |
| MORROW COUNTY (con.) |               |               |                 |                           |                |                        |            |              |            |               |      |             |        |       |                    |          |      |      |      |                    |          |  |
| 1172                 | Lincoln       | L 20 (3Q-E)   | 660 SL 1650 WL  | Comanche Oil(Ideal Dlg. ) | 1              | Frank Korody           | 12-16      | €cr          | --         | --            | --   | 3410        | FWC    | RT    |                    |          |      |      |      |                    |          |  |
| 1173                 | Harmony       | L 12 (3Q)     | 160 SL 1475 WL  |                           | 1              | K. K. Wian             |            |              |            |               |      |             |        | Pool  | RT                 | Canceled |      |      |      |                    |          |  |
| 1174                 | Harmony       | L 12 (3Q)     | 655 SL 1475 WL  |                           | 2              | K. K. Wian             |            |              |            |               |      |             |        | Pool  | RT                 | Canceled |      |      |      |                    |          |  |
| 1175                 | Harmony       | L 12 (3Q)     | 950 SL 1455 WL  |                           | 3              | K. K. Wian             |            |              |            |               |      |             |        | Pool  | RT                 | Canceled |      |      |      |                    |          |  |
| 1176                 | Harmony       | L 12 (3Q)     | 180 NL 435 WL   |                           | 4              | K. K. Wian             |            |              |            |               |      |             |        | Pool  | RT                 | Canceled |      |      |      |                    |          |  |
| 1177                 | Harmony       | L 13 (3Q)     | 165 SL 1440 WL  | Hopkins & Lott            | 5              | K. K. Wian             | 10-4       | €cr          | Acid       | --            | 600  | 3145        | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1178                 | Harmony       | L 13 (3Q)     | 430 SL 1435 WL  |                           | 6              | K. K. Wian             |            |              |            |               |      |             |        |       |                    |          |      | Pool | RT   | Canceled           |          |  |
| 1179                 | Gilead        | S 15-S        | 370 NL 306 WL   |                           | 1              | L. & K. Hicks          |            |              |            |               |      |             |        |       |                    |          |      | Pool | CT   |                    |          |  |
| 1180                 | Cardington    | S 23          | 500 NL 1540 WL  |                           | 6-A            | Joseph Sansotta        |            | 2-16         |            |               |      |             | €cr    | Acid  | --                 | 500      | 3110 | Pool | RT   |                    |          |  |
| 1181                 | Cardington    | S 23          | 1215 NL 1000 EL |                           | 7-A            | Joseph Sansotta        |            |              |            |               |      |             |        |       |                    |          |      |      | Pool | RT                 | Canceled |  |
| 1182                 | Cardington    | S 23          | 1215 NL 700 EL  | Perry Fulk, Sr.           | 8-A            | Joseph Sansotta        | 3-7        | €cr          | --         | --            | --   | 3463        | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1183                 | Harmony       | L 14 (3Q)     | 50 SL 170 WL    |                           | 1              | B. & G. Woods          |            |              |            |               |      |             |        |       |                    |          |      | Pool | RT   |                    |          |  |
| 1184                 | Gilead        | S 2-E         | 1280 SL 810 WL  | Dynamic Mineral Devel.    | 1              | Alice Russell          | 5-2        | €cr          | --         | --            | --   | 3300        | Pool   | CT    | Canceled           |          |      |      |      |                    |          |  |
| 1185                 | Gilead        | S 2           | 600 NL 600 EL   |                           | 1              | D. & E. Evans          |            |              |            |               |      |             |        |       |                    |          |      | Pool | CT   |                    |          |  |
| 1186                 | Cardington    | S 22          | 20 SL 750 WL    | T & W Oil Co.             | 1              | Harold Waddell         |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1187                 | Harmony       | L 14 (3Q)     | 370 SL 660 WL   | T & W Oil Co.             | 1              | K. & E. Huffman        | 3-13       | €cr          | --         | --            | --   | 3462        | Pool   | RT    |                    |          |      |      |      |                    |          |  |
| 1188                 | Cardington    | S 23          | 350 SL 294 WL   |                           | 1              | Ohio Fuel Gas Co.      | 5-4        | €cr          | Acid       | --            | 10   | 3112        | Pool   | RT    |                    |          |      |      |      |                    |          |  |
| 1189                 | Gilead        | S 11          | 140 NL 850 EL   |                           | 2              | Joe Mosher             | 4-29       | €cr          | Acid       | --            | 300  | 3219        | Pool   | CT    |                    |          |      |      |      |                    |          |  |
| 1190                 | Cardington    | S 28          | 450 NL 750 EL   |                           | 2              | S. & P. Maceyko        |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1191                 | Gilead        | S 2           | 820 SL 20 EL    |                           | 1              | M. Hickson             | 5-20       | €cr          | --         | --            | --   | 3300        | Pool   | RT    |                    |          |      |      |      |                    |          |  |
| 1192                 | Bennington    | L 24 (3Q)     | 330 SL 1600 EL  | Don Baines Dlg. Co.       | 2              | C. Fisher              | 3-11       | €cr          | Acid       | --            | 150  | 3449        | Pool   | RT    | Replaced by P-1550 |          |      |      |      |                    |          |  |
| 1193                 | Harmony       | L 13 (3Q)     | 780 SL 1130 EL  | 3                         | E. & A. Davis  |                        |            |              |            |               |      |             |        |       |                    |          | Pool | RT   |      |                    |          |  |
| 1194                 | Harmony       | L 14 (3Q)     | 75 SL 780 WL    | Lynn O. & G. Co.          | 1              | Charles Davis          | 3-26       | €cr          | --         | --            | --   | 3466        | Pool   | RT    |                    |          |      |      |      |                    |          |  |
| 1195                 | Harmony       | L 14 (3Q)     | 580 SL 780 WL   | Lynn O. & G. Co.          | 2              | Charles Davis          |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1196                 | Lincoln       | L 30 (2Q)     | 440 NL 80 EL    | Lynn O. & G. Co.          | 1              | Harold Ramsey          |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1197                 | Gilead        | S 35-E        | 1170 SL 1614 WL | SE K. B. Rexford          | 1              | K. B. Rexford          | 4-29       | €cr          | --         | --            | --   | 3339        | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1198                 | Gilead        | S 23          | 2540 NL 1980 EL |                           | 1              | D. & M. Holt           |            |              |            |               |      |             |        |       |                    |          |      | Pool | RT   |                    |          |  |
| 1199                 | Peru          | L 20 (3Q)     | 250 SL 140 WL   |                           | 1              | F. Foust               |            |              |            |               |      |             |        |       |                    |          |      | Pool | CT   | Canceled           |          |  |
| 1200                 | Lincoln       | L 5 (1Q)      | 330 NL 75 WL    |                           | 1              | H. & M. Skagg          |            | 4-29         |            |               |      |             | €cr    | --    | --                 | --       | 3300 | Pool | CT   |                    |          |  |
| 1201                 | Harmony       | L 14 (3Q)     | 370 SL 1220 WL  |                           | 1              | H. & B. Mollette       |            | 3-23         |            |               |      |             | €cr    | --    | --                 | --       | 3445 | Pool | RT   |                    |          |  |
| 1202                 | Harmony       | L 14 (3Q)     | 160 SL 1420 WL  | C. A. Kniffen             | 1              | F. & A. Spradlin       | 6-10       | €cr          | Acid       | --            | 177  | 3435        | Pool   | RT    |                    |          |      |      |      |                    |          |  |
| 1203                 | Harmony       | L 14 (3Q)     | 600 SL 1410 WL  |                           | 1              | J. & L. Blainpain      | 4-16       | €cr          | --         | --            | --   | 3427        | Pool   | RT    |                    |          |      |      |      |                    |          |  |
| 1204                 | Cardington    | S 28          | 400 NL 1800 WL  |                           | 3              | W. Beatty              |            |              |            |               |      |             | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1205                 | Harmony       | L 1 (3Q)      | 1000 SL 330 EL  |                           | 1              | R. Van Auken           |            |              |            |               |      |             | Out    | RT    | Replaced by P-1448 |          |      |      |      |                    |          |  |
| 1206                 | Bennington    | S 23          | 330 NL 330 EL   |                           | 1              | H. & R. Spires         |            |              |            |               |      |             | Out    | RT    | Replaced by P-1450 |          |      |      |      |                    |          |  |
| 1207                 | Cardington    | L 20          | 200 SL 500 EL   | Don Baines Dlg. Co.       | 1              | Vinal Cook             | 4-24       | S            | --         | --            | --   |             | Pool   | RT    | Canceled           |          |      |      |      |                    |          |  |
| 1208                 | Gilead        | S 2-E         | 745 SL 1380 WL  | 1                         | H. & M. Osborn |                        |            |              |            |               |      |             |        |       |                    |          |      | Pool | RT   | Lost hole 1310 ft. |          |  |
| 1209                 | Cardington    | S 22          | 640 SL 850 WL   | 1                         | K. S. Russell  |                        |            |              |            |               |      |             |        |       |                    |          |      | Pool | RT   | Canceled           |          |  |
| 1210                 | S. Bloomfield | S 3           | 330 NL 330 WL   | 1                         | Herbert Meiser |                        |            |              |            |               |      |             |        |       |                    |          |      | FWC  | CT   | Replaced by P-1534 |          |  |
| 1211                 | Peru          | L 15 (1Q)     | 150 NL 1130 EL  | Kin-Ark Oil Co.           | 1              | C. & M. Shaver         |            |              |            |               |      |             | 3-12   | €cr   | Acid               | --       | 500  | 3193 | Out  | RT                 |          |  |
| 1212                 | Harmony       | S 8           | 100 NL 400 WL   | Cavalier Oil Co.          | 1              | R. & M. McNamee        | 3-25       | €cr          | --         | --            | --   | 3100        | FWC    | RT    | Replaced by P-1439 |          |      |      |      |                    |          |  |
| 1213                 | Cardington    | S 27          | 135 NL 1150 WL  |                           | 1              | American Legion Park   |            |              |            |               |      |             |        |       |                    |          |      |      | Pool | RT                 |          |  |
| 1214                 | Cardington    | S 22          | 390 SL 1530 WL  |                           | 2              | American Legion Park   |            |              |            |               |      |             |        |       |                    |          |      |      | Pool | RT                 | Canceled |  |
| 1215                 | Cardington    | S 22          | 835 NL 300 WL   |                           | 6-A            | New York Central R. R. |            |              |            |               |      |             | 4-19   | €cr   | --                 | --       | --   | 312  | 3102 | Pool               | RT       |  |
| 1216                 | Cardington    | L 6-W         | 150 SL 1220 EL  |                           | 1              | H. Floyd Faust         |            |              |            |               |      |             |        |       |                    |          |      |      | Out  | CT                 | Canceled |  |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator                | Well No. | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. MCFGPD | BOPD | Total Depth | Class. | Tools | Remarks               |
|----------------------|------------|---------------|-----------------|-------------------------|----------|------------------------|------------|--------------|------------|----------------------|------|-------------|--------|-------|-----------------------|
| MORROW COUNTY (con.) |            |               |                 |                         |          |                        |            |              |            |                      |      |             |        |       |                       |
| 1217                 | Cardington | L 6-W         | 475 SL 660 EL   | H. Floyd Faust          | 2        | H. Floyd Faust         |            |              |            |                      |      |             | Pool   | CT    | Canceled              |
| 1218                 | Harmony    | L 13 (3Q)     | 600 NL 834 EL   | Cavalier Oil Co.        | 4        | E. & A. Davis          | 3-12       | €cr          | --         | --                   | --   | 3509        | Pool   | RT    |                       |
| 1219                 | Harmony    | S 2           | 230 NL 2350 EL  | Mid-Ohio O. & G. Devel. | 1        | J. F. Hudock           |            |              |            |                      |      |             | Out    | RT    | Canceled              |
| 1220                 | Cardington | S 30          | 100 SL 35 WL    | Killbuck Dlg. Co.       | 1        | T. L. Hull             | 5-1        | €cr          | --         | --                   | --   | 2918        | NWC    | CT    |                       |
| 1221                 | Cardington | L 14          | 535 NL 250 WL   | Killbuck Dlg. Co.       | 1        | J. & B. Strine         |            |              |            |                      |      |             | FWC    | CT    | Canceled              |
| 1222                 | Harmony    | L 2 (3Q)      | 276 NL 300 EL   | Lynn; Maskeny; Cavalier | 1        | Katie Tipton           | 3-18       | €cr          | --         | --                   | --   | 3553        | Out    | RT    |                       |
| 1223                 | Lincoln    | L 25 (3Q)     | 130 NL 110 WL   | Mid-Ohio O. & G. Devel. | 1        | J. & M. Osborne        | 4-3        | €cr          | Nat?       | --                   | 18   | 3382        | Pool   | RT    | Abd. 8-24             |
| 1224                 | Lincoln    | L 24 (4Q)     | 150 NL 250 EL   | Mid-Ohio O. & G. Devel. | 1        | C. & M. Pecko          |            |              |            |                      |      |             | NWC    | RT    | Canceled              |
| 1225                 | Westfield  | L 13 (1Q)     | 50 NL 1380 EL   | Rebel Dlg. Co.          | 1        | E. & W. Clements       | 4-14       | €cr          | --         | --                   | --   | 2955        | Pool   | RT    |                       |
| 1226                 | Franklin   | L 11 (3Q)     | 340 SL 320 WL   | Rebel Dlg. Co.          | 1        | L. & A. Van Horn       |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1227                 | Cardington | L 8           | 550 SL 1100 EL  | Rebel Dlg. Co.          | 1        | D. Bartley             |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1228                 | Cardington | L 8           | 550 SL 1230 EL  | Rebel Dlg. Co.          | 1        | A. & H. Dukes          |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1229                 | Canaan     | S 17          | 500 NL 500 WL   | Rebel Dlg. Co.          | 1        | V. & D. Gist           |            |              |            |                      |      |             | NWC    | RT    | Canceled              |
| 1230                 | Cardington | S 23          | 1095 SL 575 WL  | Petrol Servicing, Inc.  | 2        | C. J. Coomer           |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1231                 | Cardington | S 23          | 1045 NL 875 WL  | Petrol Servicing, Inc.  | 2        | O. & F. McDonald       | 3-12       | €cr          | Acid       | --                   | 220  | 3112        | Pool   | RT    |                       |
| 1232                 | Chester    | L 8 (2Q)      | 750 SL 350 EL   | Carl Hunt               | 1        | Carl Hunt              |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1233                 | Franklin   | L 18 (3Q)     | 230 SL 650 EL   | J. A. Lavender, Jr.     | 1        | Dale Squires           |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1234                 | Franklin   | L 18 (3Q)     | 400 NL 1000 EL  | Len Horton              | 1-A      | Dale Squires           |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1235                 | Franklin   | L 18 (3Q)     | 100 NL 260 EL   | Joe Canterbury          | 1-B      | Dale Squires           |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1236                 | Franklin   | L 18 (3Q)     | 480 NL 580 EL   | E. A. McCubbin          | 1        | Dale Squires           |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1237                 | Peru       | L 20 (3Q)     | 495 NL 925 WL   | Dusty Dlg. Co.          | 1        | J. Hicksom             | 4-7        | €cr          | --         | --                   | --   | 3200        | Pool   | CT    |                       |
| 1238                 | Peru       | L 20 (3Q)     | 815 NL 1287 WL  | Dusty Dlg. Co.          | 2        | J. Hicksom             |            |              |            |                      |      |             | Pool   | CT    | Canceled              |
| 1239                 | Peru       | L 20 (3Q)     | 127 NL 460 WL   | Don Bowman              | 1        | W. & P. Zent           | 4-17       | €cr          | --         | --                   | --   | 3209        | Pool   | CT    |                       |
| 1240                 | Westfield  | L 9 (1Q)      | 348 NL 1560 WL  | Hubert Cokes            | 1        | H. & F. Gandee         |            |              |            |                      |      |             | FWC    | RT    | Canceled              |
| 1241                 | Cardington | S 22          | 880 SL 330 EL   | Hubert Cokes            | 1        | R. Kreis               |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1242                 | Cardington | S 22          | 980 SL 1140 EL  | Hubert Cokes            | 1        | F. Heacock             |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1243                 | Cardington | L 8           | 750 SL 480 EL   | Hubert Cokes            | 1        | George Kaelber         |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1244                 | Cardington | S 21          | 175 SL 840 EL   | M. M. Wilson            | 1        | Foster Schribner       | 4-15       | €cr          | --         | --                   | --   | 3150        | Pool   | CT    |                       |
| 1245                 | Gilead     | S 35-E        | 990 SL 385 WL   | H. Eugene Strough       | 1        | E. & J. Strough        |            |              |            |                      |      |             | Pool   | RT    |                       |
| 1246                 | Cardington | L 21          | 600 SL 700 WL   | Freida Roach            | 2-       | Bending-Foreman        | 3-20       | €cr          | --         | --                   | --   | 3066        | Pool   | RT    |                       |
| 1247                 | Gilead     | S 3           | 660 SL 150 WL   | Lynn O. & G. Co.        | 2        | L. & G. Weaver         | 3-25       | €cr          | --         | --                   | --   | 3233        | Pool   | RT    |                       |
| 1248                 | Franklin   | S 6           | 330 SL 1370 EL  | Don Baines Dlg. Co.     | 1        | C. Ellis               |            |              |            |                      |      |             | FWC    | RT    | Replaced by P-1451    |
| 1249                 | Peru       | L 14 (1Q)     | 125 NL 907 WL   | M. L. McCullough        | 1        | C. L. Ingmire          |            |              |            |                      |      |             | Pool   | CT    | Canceled              |
| 1250                 | Cardington | S 28          | 350 NL 2100 WL  | Edward A. Mack          | 2        | W. Beatty              |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1251                 | Gilead     | S 3           | 300 SL 600 EL   | Comanche Oil Co.        | 2-C      | Smith-Harvey-Thomas    | 3-8        | €cr          | --         | --                   | --   | 3186        | Pool   | RT    | Oil 10 BPD. Abd. 10-3 |
| 1252                 | Cardington | S 23          | 1030 NL 220 WL  | Fulk, Jr. & Schwetz     | 6-B      | Sansotta Co.           | 3-16       | €cr          | Acid       | --                   | 30   | 3138        | Pool   | RT    |                       |
| 1253                 | Cardington | S 14          | 1348 SL 590 EL  | Fulk, Jr. & Schwetz     | 3        | L. M. Jones            | 3-11       | €cr          | Acid       | --                   | 50   | 3118        | Pool   | RT    |                       |
| 1254                 | Gilead     | S 1           | 1190 NL 865 WL  | Meridian Oil Co.        | 1        | D. & W. Jackson        | 5-16       | €cr          | Acid       | --                   | 480  | 3249        | Pool   | RT    |                       |
| 1255                 | Cardington | S 22          | 445 SL 1105 WL  | Williams & Thornhill    | 1        | Mill Feed & Seed Store |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1256                 | Gilead     | S 3           | 600 SL 1000 EL  | Comanche Oil; Weba Oil  | 3-C      | M. & R. Harvey         | 4-10       | €cr          | --         | --                   | --   | 3197        | Pool   | RT    |                       |
| 1257                 | Gilead     | S 3           | 100 NL 100 WL   | Comanche Oil Co.        | 4        | J. P. Newson           |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1258                 | Gilead     | S 3           | 180 NL 320 EL   | Comanche Oil Co.        | 2-C      | R. L. Sipe             | 3-26       | €cr          | --         | --                   | --   | 3176        | Pool   | RT    |                       |
| 1259                 | Gilead     | S 2-E         | 50 NL 125 WL    | Comanche Oil Co.        | 3        | Gale Westbrook         |            |              |            |                      |      |             | Pool   | RT    | Canceled              |
| 1260                 | Gilead     | S 1           | 1245 NL 1105 WL | Campanelli Bros., Inc.  | 2        | Garverick-Slavik       | 9-25       | €cr          | --         | --                   | --   | 3089        | Pool   | RT    |                       |
| 1261                 | Gilead     | S 1           | 590 NL 1275 WL  | Campanelli Bros., Inc.  | 3        | Garverick-Slavik       | 3-21       | €cr          | --         | --                   | --   | 3229        | Pool   | RT    |                       |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.               | Lease | Date Comp.       | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|------------|---------------|-----------------|----------|------------------------|-------|------------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |            |               |                 |          |                        |       |                  |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |            |               |                 |          |                        |       |                  |              |            |               |      |             |        |       |                    |
| 1262                 | Gilead     | S 1           | 570 NL 1520 WL  | NW       | Campanelli Bros., Inc. | 4     | Garverick-Slavik |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1263                 | Gilead     | S 1           | 345 NL 1775 WL  | NW       | Campanelli Bros., Inc. | 5     | Garverick-Slavik |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1264                 | Gilead     | S 1           | 150 NL 1525 WL  | NW       | Campanelli Bros., Inc. | 6     | Garverick-Slavik |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1265                 | Gilead     | S 1           | 1085 NL 1180 WL | NW       | Campanelli Bros., Inc. | 7     | Garverick-Slavik |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1266                 | Gilead     | S 35          | 1075 SL 1175 WL | SE       | L. C. Hildebrand       | 1     | L. C. Hildebrand |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1267                 | Gilead     | S 22          | 140 NL 860 WL   | NW       | Oxford Oil Co.         | 1     | Grimm-Baker      | 4-17         | €cr        | --            | --   | 3202        | Pool   | CT    |                    |
| 1268                 | Harmony    | L 13 (3Q)     | 840 SL 1280 WL  |          | Dee Oil Co.            | 2     | R. & V. Parthmer | 6-30         | €cr        | Acid          | --   | 3460        | Pool   | RT    |                    |
| 1269                 | Harmony    | L 13 (3Q)     | 840 SL 1060 WL  |          | Dee Oil Co.            | 3     | R. & V. Parthmer |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1270                 | Cardington | S 22          | 1845 SL 2265 EL | SE       | Collins Bros. Oil Co.  | 1     | Dorothy Wilson   |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1271                 | Cardington | L 7           | 625 SL 280 WL   |          | Collins Bros. Oil Co.  | 1     | Richard Jones    |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1272                 | Harmony    | L 13 (3Q)     | 1050 SL 400 WL  |          | Glenwood Oil Co.       | 2     | D. & C. Ritter   |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1273                 | Gilead     | S 2-E         | 1680 SL 320 EL  | SE       | E. F. Bell et al       | 2     | J. & B. Jagers   |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1274                 | Cardington | S 17          | 430 SL 90 EL    | NE       | Frank Slavick          | 1     | Frank Slavick    | 5-5          | €cr        | Acid          | --   | 600         | Pool   | CT    |                    |
| 1275                 | Lincoln    | L 1 (2Q)      | 50 NL 60 EL     |          | Jenkins Engr.; Kin-Ark | 2     | F. Underwood     | 3-16         | €cr        | Acid          | --   | 120         | Pool   | RT    |                    |
| 1276                 | Lincoln    | S 14          | 120 NL 1430 WL  | SE       | Jenkins Engineering    | 1     | M. Doty          |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1277                 | Gilead     | S 25          | 480 SL 480 EL   | NE       | J. R. Preston          | 1     | W. & M. Amick    |              |            |               |      |             | Out    | RT    | Canceled           |
| 1278                 | Gilead     | S 25          | 480 SL 370 EL   | NE       | J. R. Preston          | 2     | W. & M. Amick    |              |            |               |      |             | Out    | RT    | Canceled           |
| 1279                 | Gilead     | S 1           | 780 SL 393 EL   | NE       | Sam Richardson         | 2     | Sam Richardson   |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1280                 | Gilead     | S 1           | 790 SL 493 EL   | NE       | Sam Richardson         | 3     | Sam Richardson   |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1281                 | Gilead     | S 1           | 586 SL 440 EL   | NE       | Sam Richardson         | 4     | Sam Richardson   |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1282                 | Gilead     | S 1           | 25 NL 1175 WL   | NW       | Ray Mills              | 1     | Ray Mills        |              |            |               |      |             | Out    | RT    | Canceled           |
| 1283                 | Lincoln    | L 24 (4Q)     | 330 SL 850 EL   |          | Kenneth R. Ingle       | 1     | T. K. Williamson |              |            |               |      |             | Out    | CT    | Replaced by P-1464 |
| 1284                 | Bennington | L 20 (1Q)     | 370 SL 690 WL   |          | Kenneth R. Ingle       | 1     | V. & H. Horst    |              |            |               |      |             | Pool   | CT    | Replaced by P-1312 |
| 1285                 | Peru       | L 20 (3Q)     | 100 SL 200 WL   |          | Duane E. Bebout        | 1     | Walter Foust     |              |            |               |      |             | FWC    | RT    | Canceled           |
| 1286                 | Peru       | L 20 (3Q)     | 800 SL 360 WL   |          | Duane E. Bebout        | 1     | Mary Smith       |              |            |               |      |             | FWC    | RT    | Canceled           |
| 1287                 | Cardington | L 18          | 660 NL 330 EL   |          | Don Baines Dlg. Co.    | 1     | Harold Willey    |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1288                 | Lincoln    | L 21 (1Q)     | 1000 NL 1250 EL |          | Jenkins Engr.; Kin-Ark | 3     | R. Heacock       | 3-25         | €cr        | Acid          | --   | 500         | Pool   | CT    |                    |
| 1289                 | Cardington | S 28          | 920 SL 3480 WL  |          | Charles J. Seibert     | 1     | B. B. Garster    | 3-16         | €cr        | --            | --   | 3064        | Pool   | RT    |                    |
| 1290                 | Cardington | S 28          | 910 SL 3636 WL  |          | Charles J. Seibert     | 2     | B. B. Garster    |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1291                 | Cardington | S 28          | 222 SL 3673 WL  |          | Charles J. Seibert     | 3     | B. B. Garster    |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1292                 | Cardington | S 28          | 218 SL 3466 WL  |          | Charles J. Seibert     | 4     | B. B. Garster    |              |            |               |      |             | Pool   | CT    | Canceled           |
| 1293                 | Gilead     | S 25          | 108 NL 223 EL   |          | Petrol Servicing, Inc. | 1     | E. E. Brown      | 5-23         | €cr        | --            | --   | 3611        | NWC    | RT    |                    |
| 1294                 | Harmony    | L 14 (3Q)     | 380 SL 1415 WL  |          | Hanson & Collier       | 1     | R. & J. Stevens  | 4-3          | €cr        | Acid          | --   | 225         | Pool   | RT    |                    |
| 1295                 | Cardington | S 28          | 93 SL 250 EL    |          | Charles J. Seibert     | 1     | C. & S. Stafford | 5-16         | €cr        | --            | --   | 3085        | Pool   | CT    |                    |
| 1296                 | Gilead     | S 14          | 800 SL 40 EL    | SE       | Harry Pearce           | 1     | C. L. Wood       |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1297                 | Gilead     | S 14          | 40 NL 40 EL     | SE       | Harry Pearce           | 2     | C. L. Wood       | 3-25         | €cr        | --            | --   | 3374        | Pool   | RT    |                    |
| 1298                 | Gilead     | S 14          | 40 NL 2040 EL   | SE       | Harry Pearce           | 3     | C. L. Wood       |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1299                 | Gilead     | S 1           | 535 NL 1145 WL  | NW       | Ideal Dlg. Co.         | 1     | Evans-Swisher    | 3-26         | €cr        | --            | --   | 3293        | Pool   | RT    | Replaces P-534     |
| 1300                 | Harmony    | L 13 (3Q)     | 535 SL 1315 WL  |          | Hopkins & Lott         | 7     | K. & K. Wian     | 4-14         | €cr        | Acid          | --   | 40          | Pool   | CT    | Wtr, 121 BPD       |
| 1301                 | Harmony    | L 13 (3Q)     | 535 NL 1505 WL  |          | Hopkins & Lott         | 8     | K. & K. Wian     | 6-4          | €cr        | Acid          | --   | 50          | Pool   | RT    |                    |
| 1302                 | Harmony    | S 1           | 480 NL 580 WL   | NW       | Bauer Bros.            | 1     | T. E. Gordon     | 4-3          | €cr        | --            | --   | 3732        | FWC    | CT    |                    |
| 1303                 | Gilead     | S 2           | 1060 NL 1150 EL | NW       | Rudy Herman            | 1     | F. D. Lyons      |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1304                 | Lincoln    | L 4 (1Q)      | 520 NL 340 EL   |          | Melvin Sharrock        | 1     | Melvin Sharrock  | 5-7          | €cr        | --            | --   | 3317        | Out    | CT    |                    |
| 1305                 | Gilead     | S 1           | 1001 NL 1040 WL | NW       | Ideal Dlg. Co.         | 1     | Wright & Cring   |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1306                 | Cardington | S 14          | 945 SL 870 EL   | SW       | Fulk, Jr. & Schwetz    | 2     | F. Easterday     | 3-25         | €cr        | Acid          | --   | 140         | Pool   | RT    |                    |



## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                  | Lease | Date Comp.            | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks              |                |
|----------------------|------------|---------------|-----------------|----------|---------------------------|-------|-----------------------|--------------|------------|---------------|------|-------------|--------|-------|----------------------|----------------|
|                      |            |               |                 |          |                           |       |                       |              |            | MCFGPD        | BOPD |             |        |       |                      |                |
| MORROW COUNTY (con.) |            |               |                 |          |                           |       |                       |              |            |               |      |             |        |       |                      |                |
| 1307                 | Cardington | S 14          | 1073 SL 425 EL  | SW       | Perry Fulk, Sr.           | 2     | Carrie Philbrook      | 3-15         | €cr        | --            | --   | 3215        | Pool   | RT    | Canceled             |                |
| 1308                 | Cardington | S 14          | 1280 SL 100 EL  | SW       | Perry Fulk, Sr.           | 3     | Carrie Philbrook      |              |            |               |      |             | Pool   | RT    |                      |                |
| 1309                 | Gilead     | S 13          | 90 SL 70 WL     | SW       | Pilgrim Oil Co.           | 1     | E. D. Vaughn          | 3-14         | €cr        | --            | --   | 3355        | Pool   | CT    | Canceled             |                |
| 1310                 | Gilead     | S 23          | 620 NL 914 WL   | NW       | Pilgrim Oil Co.           | 2     | D. & S. Ferguson      |              |            |               |      |             | Pool   | RT    |                      |                |
| 1311                 | Lincoln    | L 24 (4Q)     | 330 SL 850 EL   |          | Kenneth R. Ingle          | 1     | T. K. Williamson      |              |            |               |      |             | Pool   | CT    | Replaced by P-1464   |                |
| 1312                 | Bennington | L 20 (1Q)     | 370 SL 690 WL   |          | Kenneth R. Ingle          | 1     | V. & H. Horst         |              |            |               |      |             | Pool   | CT    | Replaced by P-1463   |                |
| 1313                 | Lincoln    | L 16 (1Q)     | 330 SL 330 WL   |          | Kenneth R. Ingle          | 1     | S. Powers             |              |            |               |      |             | Pool   | CT    | Canceled             |                |
| 1314                 | Cardington | L 10          | 190 NL 490 WL   |          | E. L. Whitmer             | 1     | F. Sherman            | 4-29         | €cr        | --            | --   | 3125        | Pool   | CT    | Canceled             |                |
| 1315                 | Gilead     | S 35          | 250 SL 435 EL   | NE       | Robert Gladden            | 1     | C. S. Gladden         |              |            |               |      |             | Pool   | RT    |                      |                |
| 1316                 | Gilead     | S 3           | 800 NL 1575 EL  | NE       | Robert Gladden            | 1     | C. & E. Gladden       |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1317                 | Gilead     | S 14          | 290 SL 270 WL   | NE       | J. & B. Oil Co.           | 1     | Gilead Friends Church | 5-13         | €cr        | --            | --   | 3335        | Pool   | CT    | Canceled             |                |
| 1318                 | Cardington | S 22          | 1120 SL 460 EL  | NE       | Hobson Oil Co.            | 4     | R. & R. Green         | 3-13         | €cr        | Acid          | --   | 450         | 3196   | Pool  |                      | RT             |
| 1319                 | Cardington | L 20          | 350 NL 750 WL   |          | Harry A. Mock             | 1     | Harry A. Mock         |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1320                 | Cardington | L 20          | 220 NL 800 WL   |          | Harry A. Mock             | 2     | Harry A. Mock         |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1321                 | Cardington | L 20          | 220 NL 1875 WL  |          | Harry A. Mock             | 3     | Harry A. Mock         |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1322                 | Lincoln    | L 33 (1Q)     | 280 SL 60 WL    |          | Walter W. Willis          | 2     | V. E. Ault            | 3-30         | €cr        | --            | --   | 3134        | Pool   | RT    | Canceled             |                |
| 1323                 | Lincoln    | L 33 (1Q)     | 340 SL 60 WL    |          | Walter W. Willis          | 1     | V. E. Ault            | 3-23         | €cr        | --            | --   | 3129        | Pool   | RT    |                      |                |
| 1324                 | Lincoln    | L 25 (1Q)     | 271 NL 636 WL   |          | Gibbs Oil Co.             | 1     | R. Smith              |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1325                 | Gilead     | S 35-E        | 990 SL 2155 WL  | SW       | Jack Kimball              | 1     | Jack Kimball          |              |            |               |      |             | Pool   | CT    |                      |                |
| 1326                 | Lincoln    | L 27 (1Q)     | 100 NL 300 WL   |          | Austin Hemphill           | 4     | Little Hollywood      | 4-27         | €cr        | Acid          | --   | 120         | 3180   | Pool  | RT                   | Replaces P-317 |
| 1327                 | Chester    | L 6 (1Q)      | 440 NL 920 WL   |          | D. & J. Higgins           | 1     | D. & J. Higgins       | 4-23         | --         | --            | --   | --          | Pool   | CT    | Discontinued 420 ft. |                |
| 1328                 | Chester    | L 3 (2Q)      | 620 NL 665 EL   |          | K. & D. Higgins           | 1     | K. & D. Higgins       |              |            |               |      |             | Pool   | CT    | Abd. loc.            |                |
| 1329                 | Bennington | S 20          | 225 SL 75 WL    | SW       | Cloys W. Clark            | 1     | C. & M. Clark         |              |            |               |      |             | Pool   | CT    | Canceled             |                |
| 1330                 | Cardington | L 8           | 85 SL 1920 EL   |          | Collins Bros. Dlg. Co.    | 1     | J. D. Laucher         |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1331                 | Westfield  | S 11          | 165 NL 225 EL   | SW       | Russell McDowell          | 1     | Ershel Hunt           |              |            |               |      |             | FWC    | RT    | Canceled             |                |
| 1332                 | Bennington | L 14 (2Q)     | 535 NL 4715 WL  |          | Elliott Exploration, Inc. | 1     | Norton Westbrook      |              |            |               |      |             | Out    | CT    | Canceled             |                |
| 1333                 | Lincoln    | L 4 (1Q)      | 595 NL 390 EL   |          | Melvin Sharrock           | 2     | Melvin Sharrock       | 5-22         | €cr        | --            | --   | 3262        | Out    | CT    |                      |                |
| 1334                 | Franklin   | L 13 (3Q)     | 733 NL 525 EL   |          | R. D. Sautter             | 1     | R. D. Sautter         |              |            |               |      |             | Out    | CT    | Canceled             |                |
| 1335                 | Gilead     | S 1           | 243 NL 1458 WL  | NW       | Robert Wray               | 1     | B. & M. Bratten       |              |            |               |      |             | Pool   | CT    | Canceled             |                |
| 1336                 | Gilead     | S 1           | 887 NL 380 WL   | NW       | Robert Wray               | 1     | L. & M. Lemley        |              |            |               |      |             | Pool   | CT    | Canceled             |                |
| 1337                 | Cardington | L 8           | 150 NL 2430 EL  |          | Robert Wray               | 2     | D. D. Dunham          |              |            |               |      |             | Pool   | CT    | Canceled             |                |
| 1338                 | Cardington | L 8           | 100 SL 2080 EL  |          | Robert Wray               | 3     | D. D. Dunham          |              |            |               |      |             | Pool   | CT    | Canceled             |                |
| 1339                 | Cardington | L 8           | 220 SL 2220 EL  |          | Mike Bealer               | 4     | D. D. Dunham          | 4-9          | €cr        | --            | --   | 3090        | Pool   | CT    | SWDW 12-31           |                |
| 1340                 | Cardington | S 22          | 300 NL 525 WL   | NE       | Investment Oil Co.        | 7     | N. Y. C. R. R. Co.    | 5-6          | €cr        | --            | --   | 3100        | Pool   | CT    |                      |                |
| 1341                 | Cardington | S 22          | 750 SL 125 EL   | NW       | Investment Oil Co.        | 8     | N. Y. C. R. R. Co.    | 3-25         | €cr        | --            | --   | 50          | 3068   | Pool  | RT                   |                |
| 1342                 | Gilead     | S 1           | 1290 NL 1655 WL | NW       | Patrick Pet. Co.          | 1     | H. & E. Schroth       | 3-31         | €cr        | --            | --   | 3270        | Pool   | RT    | Canceled             |                |
| 1343                 | Lincoln    | L 32 (1Q)     | 160 NL 160 WL   |          | Mitchell & Donaldson      | 2     | L. Garverick          | 5-4          | €cr        | Acid          | --   | 125         | 3130   | Pool  | CT                   |                |
| 1344                 | Cardington | S 27          | 255 NL 1440 WL  |          | All State Pet. Corp.      | 1     | R. & N. Akron         |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1345                 | Cardington | S 22          | 1070 NL 1550 WL | SW       | All State Pet. Corp.      | 1     | H. & M. Farley        |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1346                 | Cardington | S 23          | 2175 NL 1645 WL | SW       | Wilson & Garverick        | 1     | W. C. Smith           | 5-4          | €cr        | --            | --   | 3179        | Pool   | CT    |                      |                |
| 1347                 | Harmony    | L 8 (3Q)      | 307 SL 412 EL   |          | Jack W. Holtz             | 1     | W. Nugent             | 3-31         | €cr        | Acid          | --   | 80          | 3531   | Pool  | RT                   |                |
| 1348                 | Cardington | L 18 (2Q)     | 375 SL 380 EL   |          | Chief Dlg., Inc.          | 1     | Clarence Denton       |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1349                 | Cardington | L 18 (2Q)     | 75 SL 100 EL    |          | Chief Dlg., Inc.          | 2     | Clarence Denton       |              |            |               |      |             | Pool   | CT    | Canceled             |                |
| 1350                 | Cardington | S 21          | 349 SL 590 EL   |          | Chief Dlg., Inc.          | 1     | M. Johnson            |              |            |               |      |             | Pool   | RT    | Canceled             |                |
| 1351                 | Cardington | S 28          | 100 NL 860 EL   | NE       | Chief Dlg., Inc.          | 2     | W. & M. Howe          |              |            |               |      |             | Pool   | RT    | Canceled             |                |

LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location                        | Operator               | Well No. | Lease                  | Date Comp. | Deepest Unit | Type | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|------------|---------------|---------------------------------|------------------------|----------|------------------------|------------|--------------|------|---------------|------|-------------|--------|-------|--------------------|
|                      |            |               |                                 |                        |          |                        |            |              |      | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |            |               |                                 |                        |          |                        |            |              |      |               |      |             |        |       |                    |
| 1352                 | Cardington | S 28          | 90 NL 580 EL NE                 | Chief Dlg., Inc.       | 1        | D. J. Beam             |            |              |      |               |      |             | Pool   | RT    | Canceled           |
| 1353                 | Gilead     | S 36          | 1095 NL 250 EL SW               | Masters Oil Co.        | 1        | L. Foote               |            |              |      |               |      |             | Pool   | RT    | Canceled           |
| 1354                 | Gilead     | S 3           | 940 NL 1235 EL NE               | Lowell Lyon            | 1        | Rice-Lyon              |            |              |      |               |      |             | Pool   | CT    | Canceled           |
| 1355                 |            | Voided        | Mis-assigned to another county. |                        |          |                        |            |              |      |               |      |             |        |       |                    |
| 1356                 | Lincoln    | L 2 (2Q)      | 50 SL 50 EL                     | Fulk, Jr. & Schwetz    | 1        | W. & M. Smith          | 3-17       | €cr          | Acid | --            | 300  | 3176        | Pool   | RT    |                    |
| 1357                 | Lincoln    | L 2 (2Q)      | 330 SL 330 EL                   | Fulk, Jr. & Schwetz    | 2        | W. & M. Smith          |            |              |      |               |      |             | Pool   | RT    | Replaced by P-1380 |
| 1358                 | Cardington | S 22          | 810 NL 2480 EL NE               | Ashland O. & R. Co.    | 3        | M. Hack                | 3-16       | €cr          | Acid | --            | 200  | 3171        | Pool   | RT    |                    |
| 1359                 | Gilead     | S 3           | 1225 NL 1279 EL NE              | Burgin Oil Co.         | 1        | E. A. Eckert Adv. Co.  | 5-11       | €cr          | --   | --            | --   | 3250        | Pool   | CT    |                    |
| 1360                 | Westfield  | L 13 (1Q)     | 736 NL 1207 WL                  | Well Supervision, Inc. | 1        | H. S. Cole             |            |              |      |               |      |             | Pool   | RT    | Replaced by P-1366 |
| 1361                 | Westfield  | L 13 (1Q)     | 1051 NL 932 WL                  | Well Supervision, Inc. | 2        | H. S. Cole             |            |              |      |               |      |             | Pool   | RT    | Abd. loc.          |
| 1362                 | Harmony    | L 14 (3Q)     | 125 SL 1000 WL                  | C. W. Collin           | 1        | R. Mick                |            |              |      |               |      |             | Pool   | RT    | Abd. loc.          |
| 1363                 | Cardington | L 8           | 115 SL 517 WL                   | Herbert Newhouse       | 1        | E. & E. Detwiler       |            |              |      |               |      |             | Pool   | RT    | Canceled           |
| 1364                 | Harmony    | L 14 (3Q)     | 405 SL 1330 WL                  | C. W. Collin           | 1        | R. & J. Stevens        | 4-10       | €cr          | Acid | --            | 75   | 3467        | Pool   | CT    |                    |
| 1365                 | Westfield  | S 12          | 330 SL 1000 WL SE               | James O. Kelly         | 1        | L. M. Pine             | 3-24       | €cr          | --   | --            | --   | 2950        | FWC    | RT    | Replaces P-1148    |
| 1366                 | Westfield  | L 13 (1Q)     | 1002 NL 941 WL                  | Well Supervision, Inc. | 1        | H. & S. Cole           | 3-27       | €cr          | --   | --            | --   | 3020        | FWC    | RT    |                    |
| 1367                 | Cardington | L 10          | 600 SL 1000 WL                  | Burgin Oil Co.         | 1        | Vocational Agr. Assoc. | 6-18       | €cr          | --   | --            | --   | 3097        | Pool   | CT    |                    |
| 1368                 | Cardington | S 23          | 1740 NL 740 EL NE               | Ashland O. & R. Co.    | 3        | J. Mosher              | 3-24       | €cr          | Acid | --            | 600  | 3246        | Pool   | RT    | Replaces P-1088    |
| 1369                 | Cardington | S 4           | 1980 SL 590 EL SE               | Ashland O. & R. Co.    | 2        | H. & M. Lee            | 4-1        | €cr          | Acid | --            | 660  | 3166        | Pool   | RT    |                    |
| 1370                 | Cardington | S 4           | 1502 NL 1660 EL NE              | Ashland O. & R. Co.    | 2        | L. Gillson             | 3-26       | €cr          | --   | --            | --   | 3194        | Pool   | RT    |                    |
| 1371                 | Cardington | S 22          | 1480 NL 1690 EL NE              | Ashland O. & R. Co.    | 6        | V. G. Ullom            | 4-27       | €cr          | --   | --            | --   | 3185        | Pool   | RT    |                    |
| 1372                 | Lincoln    | L 33 (1Q)     | 37 SL 200 WL                    | Jerry Moore, Inc.      | 1        | D. Dunham              | 4-23       | €cr          | --   | --            | --   | 3034        | Pool   | RT    |                    |
| 1373                 | Lincoln    | L 14 (2Q)     | 327 SL 1035 WL                  | Miller & Speake Dlg.   | 1        | D. & L. Sparks         | 3-26       | €cr          | --   | --            | --   | 3133        | Pool   | RT    |                    |
| 1374                 | Harmony    | L 8 (3Q)      | 220 SL 1300 EL                  | Halcarr Dlg. Co.       | 1        | M. Lloyd               | 4-24       | €cr          | --   | --            | --   | 3582        | Pool   | RT    |                    |
| 1375                 | Chester    | L 34 (4Q)     | 330 NL 330 EL                   | Simcox Oil Co.         | 1        | F. O. Van Sickle       | 4-1        | €cr          | --   | --            | --   | 4040        | FWC    | RT    |                    |
| 1376                 | Gilead     | S 26-W        | 1830 SL 1970 EL SE              | Ashland O. & R. Co.    | 1        | M. Anthony             | 3-28       | €cr          | Acid | --            | 82   | 3280        | Pool   | RT    |                    |
| 1377                 | Gilead     | S 27          | 1700 NL 990 WL NW               | Ashland O. & R. Co.    | 1        | A. & F. McPeak         | 4-7        | €cr          | Acid | --            | 435  | 3279        | Pool   | RT    |                    |
| 1378                 | Cardington | S 23          | 330 NL 385 EL NW                | Perry Fulk, Sr.        | 10-A     | Sansotta Co.           | 3-23       | €cr          | Acid | --            | 250  | 3120        | Pool   | RT    |                    |
| 1379                 | Cardington | S 23          | 830 NL 661 EL NW                | Perry Fulk, Sr.        | 9-A      | Sansotta Co.           | 4-23       | €cr          | Acid | --            | 450  | 3115        | Pool   | RT    |                    |
| 1380                 | Lincoln    | L 2 (2Q)      | 430 SL 330 EL                   | Fulk, Jr. & Schwetz    | 2        | W. & M. Smith          | 3-24       | €cr          | Acid | --            | 80   | 3143        | Pool   | RT    |                    |
| 1381                 | Harmony    | L 26 (4Q)     | 490 NL 325 WL                   | Mt. Carmel Dlg. Co.    | 1        | D. & D. Hilderbrand    | 4-3        | €cr          | --   | --            | --   | 3648        | FWC    | RT    |                    |
| 1382                 | Gilead     | S 11          | 660 NL 0 WL SE                  | R. E. Williams         | 1        | D. & L. Weaver         | 4-10       | €cr          | --   | --            | --   | 3392        | Out    | RT    |                    |
| 1383                 | Cardington | S 16          | 1680 NL 890 WL NW               | Ashland O. & R. Co.    | 1        | E. Burgraff            | 3-27       | €cr          | Acid | --            | 120  | 3105        | Pool   | RT    |                    |
| 1384                 | Cardington | S 15          | 360 NL 1000 WL SW               | Ashland O. & R. Co.    | 2        | Walter Long            | 3-28       | €cr          | Acid | --            | 72   | 3160        | Pool   | RT    |                    |
| 1385                 | Cardington | S 15          | 1550 SL 1695 WL SE              | Ashland O. & R. Co.    | 3        | Walter Long            | 4-17       | €cr          | Acid | --            | 144  | 3208        | Pool   | RT    |                    |
| 1386                 | Congress   | S 19          | 330 SL 330 EL SW                | Lake Shore Pipe Line   | 1        | M. Bachelder           | 5-13       | €cr          | --   | --            | --   | 3602        | FWC    | RT    |                    |
| 1387                 | Harmony    | L 9 (3Q)      | 100 NL 760 EL                   | Development Assoc.     | 3        | E. & A. West           | 3-22       | €cr          | Acid | --            | --   | 3520        | Pool   | RT    | Oil 5 BPD          |
| 1388                 | Bennington | L 13 (3Q)     | 330 NL 1200 EL                  | Robert Wray            | 1        | J. B. McBee            | 4-12       | €ms          | --   | --            | --   | 4450        | FWC    | RT    | Replaces P-1018    |
| 1389                 | Cardington | S 14          | 835 SL 330 WL SW                | Jerry Moore, Inc.      | 1        | A. Knickle             | 3-24       | €cr          | --   | --            | 80   | 3211        | Pool   | RT    |                    |
| 1390                 | Westfield  | S 19          | 630 SL 330 WL NE                | Jack D. Holtz          | 1-A      | W. & C. Lehrer         | 4-2        | €cr          | --   | --            | --   | 2935        | FWC    | RT    |                    |
| 1391                 | Cardington | L 4-W         | 317 NL 1031 WL                  | Patrick Pet. Co.       | 1        | S. C. Fouts            | 3-31       | €cr          | --   | --            | --   | 3103        | Out    | RT    |                    |
| 1392                 | Chester    | L 5 (2Q)      | 951 NL 622 EL                   | Rudder O. & G. Co.     | 1        | J. & G. James          | 5-27       | €cr          | --   | --            | --   | 3711        | NWC    | CT    |                    |
| 1393                 | Cardington | L 9           | 330 SL 564 WL                   | Jenkins Engineering    | 1        | J. Hardman             | 4-29       | €cr          | --   | --            | --   | 3126        | Pool   | CT    |                    |
| 1394                 | Westfield  | L 12 (3Q)     | 330 NL 330 EL                   | Jenkins Engineering    | 1        | W. Mozier              | 5-15       | €cr          | --   | --            | --   | 2808        | FWC    | CT    |                    |
| 1395                 | Cardington | S 23          | 360 NL 660 EL SE                | Ashland O. & R. Co.    | 4        | J. & M. Mosher         |            |              |      |               |      |             | Pool   | RT    | Abd. loc.          |
| 1396                 | Cardington | S 21          | 1690 NL 1550 WL SW              | Ashland O. & R. Co.    | 1        | G. & L. List           | 4-16       | €cr          | --   | --            | --   | 3128        | Pool   | RT    |                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                 | Lease | Date Comp.              | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |    |
|----------------------|---------------|---------------|-----------------|----------|--------------------------|-------|-------------------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|----|
|                      |               |               |                 |          |                          |       |                         |              |            | MCFGPD        | BOPD |             |        |       |                    |    |
| MORROW COUNTY (con.) |               |               |                 |          |                          |       |                         |              |            |               |      |             |        |       |                    |    |
| 1397                 | Cardington    | S 4           | 1690 SL 1650 EL | SE       | Ashland O. & R. Co.      | 2     | C. & F. Clinger         | 4-10         | €cr        | --            | --   | 3200        | Pool   | RT    | Replaces P-791     |    |
| 1398                 | Harmony       | L 13 (3Q)     | 330 SL 1620 WL  |          | Development Assoc.       | 2     | E. & A. West            | 4-1          | €cr        | Acid          | --   | 350         | 3451   | Pool  |                    | RT |
| 1399                 | Franklin      | L 19 (3Q)     | 350 NL 900 WL   |          | Tri-State Prod. Co.      | 3     | Morrow Elect. Co-Op.    | 3-28         | €cr        | --            | --   | --          | 3730   | Pool  |                    | RT |
| 1400                 | Lincoln       | L 17 (2Q)     | 40 NL 700 EL    |          | J. Shriver               | 1     | W. & P. Herron          | 3-15         | €cr        | --            | --   | --          | 3079   | Out   |                    | CT |
| 1401                 | S. Bloomfield | S 6           | 330 SL 990 EL   | SE       | POC Oil Corp.            | 2-B   | T. & J. Ray             | 4-6          | €cr        | --            | --   | --          | 3903   | FWC   |                    | RT |
| 1402                 | Gilead        | S 36          | 930 SL 330 EL   | SW       | Merrill Dlg. Co.         | 1     | H. G. Curran            | 6-5          | €cr        | --            | --   | --          | 3393   | Pool  |                    | CT |
| 1403                 | Gilead        | S 35-E        | 330 NL 670 WL   | NW       | Southern Triangle Oil    | 1     | Hilderbrand-Richardson  | 4-11         | €cr        | Acid          | --   | 200         | 3280   | Pool  | RT                 |    |
| 1404                 | Gilead        | S 12          | 1890 SL 1390 WL | SW       | Southern Triangle Oil    | 2     | E. Broiller             | 4-3          | €cr        | --            | --   | --          | 3421   | Pool  | RT                 |    |
| 1405                 | Bennington    | S 18 (1Q)     | 1310 NL 333 EL  |          | Clinton Oil Co.          | 2     | N. & I. Covert          | 5-3          | €cr        | Acid          | --   | 450         | 3521   | Pool  | RT                 |    |
| 1406                 | Cardington    | S 15          | 330 SL 1620 WL  | SW       | Ashland O. & R. Co.      | 1     | L. Dennis               | 4-5          | €cr        | Acid          | --   | 144         | 3160   | Pool  | RT                 |    |
| 1407                 | Cardington    | S 23          | 2270 NL 1320 EL | NE       | Ashland O. & R. Co.      | 5     | J. & M. Mosher          | 4-5          | €cr        | Acid          | --   | 600         | 3240   | Pool  | RT                 |    |
| 1408                 | Peru          | L 14 (1Q)     | 625 SL 940 EL   |          | Kin-Ark Oil Co.          | 1     | Shaver-Cowgill-Williams | 4-2          | €cr        | Acid          | --   | 350         | 3195   | Pool  | RT                 |    |
| 1409                 | Canaan        | S 20          | 330 NL 330 WL   | NW       | Ideal Dlg. Co.           | 1     | D. B. Ault              | 3-30         | €cr        | --            | --   | --          | 3009   | Out   | RT                 |    |
| 1410                 | Cardington    | S 23          | 1055 SL 320 WL  | NE       | Robert Tatum             | 4-A   | J. & M. Mosher          | 4-9          | €cr        | --            | --   | --          | 3248   | Pool  | RT                 |    |
| 1411                 | Lincoln       | L 25 (3Q)     | 707 NL 553 EL   |          | David Law                | 1     | F. & E. Hickman         | 5-16         | €cr        | --            | --   | --          | 3411   | Pool  | CT                 |    |
| 1412                 | Washington    | S 26          | 1160 NL 330 EL  | SE       | Fulk, Jr. & Schwetz      | 1     | L. W. Rinehart          | 4-5          | €cr        | --            | --   | --          | 3479   | FWC   | RT                 |    |
| 1413                 | Gilead        | S 14-S        | 330 NL 1020 WL  | SE       | Pearce;Hydrocarb.Liquids | 1     | C. L. Wood              | 4-8          | €cr        | --            | --   | --          | 3399   | Out   | RT                 |    |
| 1414                 | Gilead        | S 11          | 1759 SL 1713 EL | SE       | Clyde R. Bowman          | 1     | Hazel Bachelder         | 5-14         | €cr        | --            | --   | --          | 3380   | Pool  | CT                 |    |
| 1415                 | Lincoln       | L 35 (1Q)     | 480 NL 530 WL   |          | Moore;Lake Shore P. L.   | 1     | A. & G. Thomas          | 4-15         | €cr        | --            | --   | --          | 3305   | Pool  | RT                 |    |
| 1416                 | Gilead        | S 3           | 365 NL 330 WL   | SE       | Comanche Oil Co.         | 4-C   | J. P. Newson            | 4-5          | €cr        | --            | --   | --          | 3262   | Pool  | RT                 |    |
| 1417                 | Lincoln       | L 27 (1Q)     | 380 NL 330 WL   |          | Jerry Moore, Inc.        | 1     | E. Click                | 4-20         | €cr        | Acid          | 270  | 70          | 3310   | Pool  | RT                 |    |
| 1418                 | Lincoln       | L 20 (1Q)     | 860 NL 590 WL   |          | Moore;Lake Shore P. L.   | 1     | J. V. Cooney            | 4-2          | €cr        | --            | --   | --          | 3380   | Pool  | RT                 |    |
| 1419                 | Bennington    | S 19 (2Q)     | 330 NL 330 WL   |          | Brasel & Brasel          | 1     | T. C. Bosworth          | 4-24         | €cr        | --            | --   | --          | 3550   | Pool  | RT                 |    |
| 1420                 | Congress      | S 17          | 990 NL 330 EL   | SE       | Hanson & Collier         | 1     | W. & L. Rodebeck        | 5-27         | €cr        | --            | --   | --          | 3764   | FWC   | RT                 |    |
| 1421                 | Cardington    | S 22          | 340 NL 960 WL   | NW       | Ashland O. & R. Co.      | 1     | Long-Hack               |              |            |               |      |             | Pool   | RT    | Abd. loc.          |    |
| 1422                 | Cardington    | S 11          | 330 SL 830 WL   | SW       | Ashland O. & R. Co.      | 1     | A. M. Smith             | 4-19         | €cr        | --            | --   | --          | 3254   | Pool  | RT                 |    |
| 1423                 | Harmony       | L 17 (2Q)     | 497 SL 330 WL   |          | Hobson Oil Co.           | 1     | N. & E. Fiscarelli      | 7-22         | €cr        | --            | --   | --          | 3434   | Pool  | CT                 |    |
| 1424                 | Peru          | L 9 (1Q)      | 1000 NL 330 WL  |          | Hobson Oil Co.           | 1     | P. Bennett              | 5-29         | €cr        | Acid          | --   | 350         | 3135   | Out   | CT                 |    |
| 1425                 | Cardington    | L 7-E (1Q)    | 700 NL 366 EL   |          | Barnwell Prod. Co.       | 1     | Alice Shaw              | 4-15         | €cr        | --            | --   | --          | 3400   | Pool  | RT                 |    |
| 1426                 | Lincoln       | L 21 (1Q)     | 526 NL 366 EL   |          | Cavalier Oil Co.         | 2     | Dean Cusick             | 5-3          | €cr        | Acid          | --   | 250         | 3200   | Pool  | RT                 |    |
| 1427                 | Cardington    | S 14          | 330 SL 330 WL   | SE       | Perry Fulk, Sr.          | 3-B   | Carrie Philbrook        | 4-7          | €cr        | --            | --   | --          | 3229   | Pool  | RT                 |    |
| 1428                 | Franklin      | S 8-E         | 330 NL 610 WL   | NE       | Michael T. Cowen         | 1     | O. & H. Frederick       | 4-11         | €cr        | Acid          | --   | 78          | 4037   | Out   | RT                 |    |
| 1429                 | Cardington    | S 16          | 330 NL 990 WL   | NW       | Ashland O. & R. Co.      | 1-A   | Roma Sellars            | 4-7          | €cr        | Acid          | --   | 96          | 3105   | Pool  | RT                 |    |
| 1430                 | Gilead        | S 26-W        | 330 NL 1530 EL  | NE       | Ashland O. & R. Co.      | 2     | J. H. Kelley            |              |            |               |      |             | Pool   | RT    | Replaced by P-2033 |    |
| 1431                 | Gilead        | S 26-W        | 2160 SL 1650 EL | SE       | Ashland O. & R. Co.      | 2     | M. Anthony              | 4-20         | €cr        | Acid          | --   | 700         | 3231   | Pool  |                    | RT |
| 1432                 | Gilead        | S 35-E        | 297 NL 265 EL   | SW       | Richard Pryer            | 1     | M. & L. Koon            | 4-16         | €cr        | --            | --   | --          | 3338   | Pool  | RT                 |    |
| 1433                 | Peru          | L 9 (1Q)      | 1000 SL 330 WL  |          | Clinton Oil Co.          | 1     | L. & E. Howard          | 4-2          | €cr        | Acid          | --   | 200         | 3101   | Pool  | CT                 |    |
| 1434                 | Westfield     | L 19 (4Q)     | 330 NL 992 WL   |          | T. B. Cole               | 1     | Ocker-Clutter           | 5-6          | €cr        | --            | --   | --          | 2873   | FWC   | CT                 |    |
| 1435                 | Franklin      | L 17 (3Q)     | 330 SL 330 WL   |          | Tri-State Prod. Co.      | 1     | Ivan Sherman            | 4-14         | €cr        | Acid          | --   | 25          | 3750   | Pool  | RT                 |    |
| 1436                 | Gilead        | S 23-W        | 330 SL 2120 EL  | SE       | Ashland O. & R. Co.      | 1     | L. & E. Williams        | 4-10         | €cr        | --            | --   | --          | 3240   | Pool  | RT                 |    |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                   | Lease | Date Comp.        | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                                   |                                    |
|----------------------|------------|---------------|-----------------|----------|----------------------------|-------|-------------------|--------------|------------|---------------|------|-------------|--------|-------|---|------------------------------------|
|                      |            |               |                 |          |                            |       |                   |              |            | MCFGPD        | BOPD |             |        |       |   |                                    |
| MORROW COUNTY (con.) |            |               |                 |          |                            |       |                   |              |            |               |      |             |        |       |   |                                    |
| 1437                 | Franklin   | S 4           | 701 SL 345 EL   | SW       | Keillor & Clark            | 1     | J. & M. Wolfinger | 5-13         | €cr        | --            | --   | 3631        | FWC    | CT    | Abd. loc.<br>Replaces P-1212<br>Discovery |                                    |
| 1438                 | Gilead     | S 34          | 1299 NL 305 WL  | SE       | Thurlow Weed               | 1     | Stella George     |              |            |               |      |             | Pool   | CT    |   |                                    |
| 1439                 | Harmony    | S 8           | 330 NL 400 WL   |          | Cavalier Oil Co.           | 1     | R. & E. McNamee   | 4-13         | €cr        | Acid          | --   | 55          | 3531   | NWC   |   | RT                                 |
| 1440                 | Harmony    | L 35 (4Q)     | 330 NL 330 WL   |          | Cavalier Oil Co.           | 1     | C. R. Compton     | 4-13         | €cr        | --            | --   | --          | 3545   | Pool  | RT  |                                    |
| 1441                 | Cardington | L 23          | 1180 SL 330 EL  |          | Guy Roper                  | 1     | N. Jenkins        | 5-26         | €cr        | --            | --   | --          | 3096   | Pool  | CT  |                                    |
| 1442                 | Harmony    | L 14 (3Q)     | 380 SL 960 EL   |          | Cavalier Oil Co.           | 5     | E. & A. Davis     | 4-21         | €cr        | Acid          | --   | 40          | 3466   | Pool  | RT  | Lost hole 400 ft.                  |
| 1443                 | Harmony    | L 8 (3Q)      | 1536 SL 460 EL  |          | W. P. & V. H. Simmons      | 3     | M. J. Lloyd       | ?            | Doh        | --            | --   | --          | --     | Pool  | RT  |                                    |
| 1444                 | Peru       | L 15 (1Q)     | 1710 SL 2070 EL |          | Kin-Ark Oil Co.            | 2     | Shaver-Neff       | 4-11         | €cr        | Acid          | --   | 480         | 3195   | Pool  | RT  |                                    |
| 1445                 | Cardington | S 14          | 895 SL 665 EL   | SW       | Perry Fulk, Sr.            | 4     | Carrie Philbrook  | 5-6          | €cr        | Acid          | --   | 250         | 3200   | Pool  | RT  |                                    |
| 1446                 | Cardington | S 14          | 330 SL 300 EL   | SW       | Perry Fulk, Sr.            | 3     | Carrie Philbrook  | 4-15         | €cr        | Acid          | --   | 250         | 3205   | Pool  | RT  |                                    |
| 1447                 | Chester    | L 10 (3Q)     | 495 NL 495 EL   |          | Bill Allen & Assoc.        | 1     | W. & L. Bean      |              |            |               |      |             | FWC    | CT    | Abd. loc.                                 |                                    |
| 1448                 | Harmony    | L 1 (3Q)      | 1000 SL 330 EL  |          | Don Baines Dlg. Co.        | 1     | R. Van Auker      | 4-14         | €cr        | --            | --   | 3490        | Out    | RT    | Replaces P-1205                           |                                    |
| 1449                 | Bennington | L 13 (2Q)     | 118 NL 3920 WL  |          | Basin Oil Devel.           | 1     | Ralston-Ludwig    | 8-5          | €cr        | --            | --   | 3504        | Out    | RT    | Replaces P-591                            |                                    |
| 1450                 | Bennington | S 23          | 330 NL 330 EL   | SE       | Don Baines Dlg. Co.        | 1     | H. J. Spires      | 4-23         | €cr        | --            | --   | 3590        | Out    | RT    | Replaces P-1206                           |                                    |
| 1451                 | Franklin   | S 6           | 330 SL 1370 EL  | NW       | Don Baines Dlg. Co.        | 1     | C. Ellis          | 4-27         | €cr        | --            | --   | 4080        | FWC    | RT    | Replaces P-1248                           |                                    |
| 1452                 | Gilead     | S 23          | 600 NL 330 WL   | NW       | Don Baines Dlg. Co.        | 2     | W. Carr           | 4-15         | €cr        | Acid          | --   | 225         | 3229   | Pool  | RT  | Canceled                           |
| 1453                 | Lincoln    | L 40 (4Q)     | 330 NL 330 WL   |          | Moore; Lake Shore P. L.    | 1     | Carl Smith        |              |            |               |      |             | Pool   | RT    |   |                                    |
| 1454                 | Gilead     | S 23-S        | 1835 NL 935 WL  | NE       | Pilgrim O. & G. Co.        | 2     | Wave Stahl        | 5-7          | €cr        | Acid          | --   | 25          | 3264   | Pool  | CT  | Abd. loc.                          |
| 1455                 | Gilead     | S 13          | 150 NL 1755 WL  | NE       | Fred Jackson               | 1     | Smith-Dumbaugh    | 6-24         | €cr        | --            | --   | 3430        | Pool   | CT    |   |                                    |
| 1456                 | Lincoln    | L 32 (1Q)     | 296 NL 200 WL   |          | Jerry Moore, Inc.          |       | H. M. Fiant       |              |            |               |      |             | Pool   | RT    |   |                                    |
| 1457                 | Chester    | L 12 (2Q)     | 100 SL 330 WL   |          | Rudder O. & G. Co.         | 1     | E. D. Bachelder   | 5-15         | €cr        | --            | --   | --          | 3781   | NWC   | CT  | Canceled                           |
| 1458                 | Lincoln    | L 32 (2Q)     | 330 SL 330 EL   |          | Hobson Oil Co.             | 1     | L. & S. Smith     | 7-21         | €cr        | --            | --   | --          | 3465   | Pool  | CT  |                                    |
| 1459                 | Gilead     | S 14          | 1120 NL 781 EL  | SW       | Hobson Oil Co.             | 1     | Edith Gear        | 5-26         | €cr        | Acid          | --   | 250         | 3236   | Pool  | CT  |                                    |
| 1460                 | Cardington | S 27          | 150 SL 1490 WL  |          | Hobson Oil Co.             | 1     | D. D. Dunham      |              |            |               |      |             | Pool   | CT    |   |                                    |
| 1461                 | Peru       | L 17 (4Q)     | 330 NL 1940 EL  |          | Kin-Ark Oil Co.            | 1     | F. & E. Stewart   | 4-14         | €cr        | Acid          | 2000 | --          | 3500   | Out   | RT  |                                    |
| 1462                 | Westfield  | L 11 (3Q)     | 1320 NL 330 EL  |          | Fairway Pet. Corp.         | 1     | John Greenawalt   | 5-21         | €cr        | --            | --   | --          | 2837   | FWC   | CT  | Replaces P-1284<br>Replaces P-1311 |
| 1463                 | Bennington | L 20 (1Q)     | 370 SL 690 WL   |          | K. R. Ingle; J. Moore      | C-1   | V. & H. Horst     | 5-13         | €cr        | --            | --   | --          | 3685   | Pool  | CT  |                                    |
| 1464                 | Lincoln    | L 24 (4Q)     | 330 SL 850 EL   |          | Kenneth R. Ingle           | 1     | T. K. Williamson  | 5-16         | €cr        | --            | --   | --          | 3318   | Out   | CT  |                                    |
| 1465                 | Gilead     | S 26-E        | 660 SL 990 EL   | NE       | Royal O. & G.; Irvin Prod. | 2     | R. & M. Barler    | 5-12         | €cr        | --            | --   | --          | 3535   | Out   | CT  |                                    |
| 1466                 | Gilead     | S 14          | 1698 NL 823 EL  | SW       | Hobson Oil Co.             | 1     | W. & A. Frike     | 5-27         | €cr        | Acid          | --   | 225         | 3236   | Pool  | CT  |                                    |
| 1467                 | Gilead     | S 35-E        | 700 SL 1860 WL  | NE       | Charles J. Seibert         | 1     | N. & C. Terry     | 6-7          | €cr        | --            | --   | --          | 3357   | Pool  | CT  | Canceled                           |
| 1468                 | Cardington | S 4           | 330 NL 330 WL   | SW       | Ashland O. & R. Co.        | 3     | C. R. Clinger     | 5-2          | €cr        | Acid          | --   | 144         | 3075   | Pool  | RT  |                                    |
| 1469                 | Cardington | S 8           | 1650 SL 1180 WL | SW       | Ashland O. & R. Co.        | 1     | W. J. Thomas      |              |            |               |      |             | Pool   | RT    |   |                                    |
| 1470                 | Cardington | S 9           | 1620 SL 2270 EL | SE       | Ashland O. & R. Co.        | 1     | G. & S. Bender    | 5-28         | €cr        | Acid          | --   | 168         | 3120   | Pool  | RT  |                                    |
| 1471                 | Cardington | S 4           | 950 SL 1650 EL  | SE       | Ashland O. & R. Co.        | 1     | D. & F. Clinger   |              |            |               |      |             | Pool   | RT    |   |                                    |
| 1472                 | Gilead     | S 27          | 1650 NL 330 WL  | NW       | Ashland O. & R. Co.        | 2     | R. C. McPeck      | 4-21         | €cr        | Acid          | --   | 500         | 3105   | Pool  | RT  | Abd. loc.                          |
| 1473                 | Gilead     | S 26-W        | 200 SL 330 EL   | NE       | Ashland O. & R. Co.        | 3     | R. C. McPeck      | 4-27         | €cr        | --            | --   | --          | 3255   | Pool  | RT  |                                    |
| 1474                 | Gilead     | S 26-W        | 2160 SL 990 EL  | SE       | Ashland O. & R. Co.        | 3     | M. Anthony        |              |            |               |      |             | Pool   | RT    |   |                                    |
| 1475                 | Gilead     | S 26-W        | 1500 SL 990 EL  | SE       | Ashland O. & R. Co.        | 4     | M. Anthony        | 9-4          | €cr        | Acid          | --   | 360         | 3235   | Pool  | RT  |                                    |
| 1476                 | Gilead     | S 26-W        | 2160 SL 330 EL  | SE       | Ashland O. & R. Co.        | 5     | M. Anthony        | 5-3          | €cr        | Acid          | --   | 360         | 3225   | Pool  | RT  |                                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        |    | Operator                      | Well No. | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks         |
|----------------------|---------------|---------------|-----------------|----|-------------------------------|----------|-----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-----------------|
|                      |               |               |                 |    |                               |          |                       |            |              |            | MCFGPD        | BOPD |             |        |       |                 |
| MORROW COUNTY (con.) |               |               |                 |    |                               |          |                       |            |              |            |               |      |             |        |       |                 |
| 1477                 | Cardington    | S 16          | 660 NL 990 WL   | NW | Ashland O. & R. Co.           | A-2      | Roma Sellars          |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 1478                 | Cardington    | S 16          | 990 NL 1650 WL  | NW | Ashland O. & R. Co.           | A-3      | Roma Sellars          | 4-25       | €cr          | --         | --            | --   | 3075        | Pool   | RT    |                 |
| 1479                 | Cardington    | S 16          | 330 NL 1650 WL  | NW | Ashland O. & R. Co.           | A-4      | Roma Sellars          |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 1480                 | Chester       | L 12 (3Q)     | 990 SL 330 WL   |    | Oxford Oil Co.                | 1-A      | Charles Kidwell       |            |              |            |               |      |             | Pool   | CT    | Abd. loc.       |
| 1481                 | Chester       | L 12 (3Q)     | 1475 SL 960 WL  |    | Oxford Oil Co.                | 2-A      | Charles Kidwell       |            |              |            |               |      |             | Pool   | CT    | Abd. loc.       |
| 1482                 | Chester       | L 12 (3Q)     | 330 SL 960 WL   |    | Oxford Oil Co.                | 3-A      | Charles Kidwell       |            |              |            |               |      |             | Pool   | CT    | Abd. loc.       |
| 1483                 | Chester       | L 12 (3Q)     | 810 SL 1590 WL  |    | Oxford Oil Co.                | 4-A      | Charles Kidwell       |            |              |            |               |      |             | Pool   | CT    | Abd. loc.       |
| 1484                 | Gilead        | S 10          | 600 SL 482 EL   | SW | Jim Gibson Oil Co.            | 1        | O. F. Horn            | 5-21       | €cr          | --         | --            | --   | 3261        | Pool   | CT    |                 |
| 1485                 | Bennington    | S 18 (1Q)     | 693 SL 330 WL   |    | Jim Gibson Oil Co.            | 1-A      | W. & F. Ashbaugh      | 4-20       | €cr          | --         | --            | --   | 3622        | Pool   | RT    |                 |
| 1486                 | Perry         | S 7           | 332 SL 1316 EL  | SW | Astro Pet. & Investment       | 3        | H. A. LeMons          | 4-29       | Snb          | Nat        | 3110          | --   | 1557        | FWC    | CT    | Replaces P-1032 |
| 1487                 | Cardington    | S 22          | 330 SL 788 EL   | SE | Jerry D. Black                | 3        | Cecil Maxwell         | 4-28       | €cr          | Acid       | --            | 10   | 3103        | Pool   | RT    |                 |
| 1488                 | Cardington    | S 21          | 330 SL 1600 WL  | SW | Ashland O. & R. Co.           | 2        | George List           |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 1489                 | Cardington    | S 22          | 60 NL 1586 EL   | NE | Ashland O. & R. Co.           | 7        | V. G. Ullom           |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 1490                 | S. Bloomfield | S 3           | 330 SL 1032 WL  | NW | Keillor & Clark               | 1        | Albert Schatzman      | 4-25       | €cr          | Acid       | 250           | 22   | 3964        | FWC    | RT    | Discovery       |
| 1491                 | Cardington    | S 23          | 330 SL 58 WL    | NE | Robert Tatum                  | 5-A      | J. & M. Mosher        | 4-23       | €cr          | Acid       | --            | 13   | 3250        | Pool   | RT    |                 |
| 1492                 | Cardington    | S 23          | 975 SL 330 EL   | NW | Robert Tatum                  | 6-A      | J. & M. Mosher        | 5-6        | €cr          | --         | --            | --   | 3220        | Pool   | RT    | Oil 6 BPD       |
| 1493                 | Cardington    | S 22          | 1400 NL 580 WL  | NW | Ashland O. & R. Co.           | 1        | Weaver Kelly          |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 1494                 | Westfield     | L 9 (3Q)      | 990 NL 990 WL   |    | Jenkins Engineering           | 2        | D. McGinnis           | 5-21       | €cr          | --         | --            | --   | 2735        | FWC    | CT    |                 |
| 1495                 | Bennington    | L 31 (3Q)     | 330 NL 330 EL   |    | Scioto O. & G. Corp.          | 1        | R. C. Reil            | 6-6        | €cr          | --         | --            | --   | 3500        | FWC    | CT    |                 |
| 1496                 | N. Bloomfield | S 31          | 200 SL 968 EL   | SE | Kin-Ark Oil; Lake Shore P. L. | 1        | Pickering-Myers       | 6-23       | €cr          | --         | --            | --   | 3508        | FWC    | CT    |                 |
| 1497                 | Gilead        | S 3           | 710 NL 1180 WL  | SE | Comanche Oil Co.              | 5-C      | J. P. Newson          | 4-22       | €cr          | --         | --            | --   | 3240        | Pool   | RT    |                 |
| 1498                 | Bennington    | L 12 (2Q)     | 675 NL 330 WL   |    | Falese Oil Co.                | 2        | S. & M. Fisher        | 4-19       | €cr          | --         | --            | --   | 3410        | Out    | RT    |                 |
| 1499                 | Chester       | L 37 (1Q)     | 345 NL 471 EL   |    | Virgil H. Watson              | 1        | A. & M. Evans         | 7-22       | €cr          | --         | --            | --   | 3967        | Out    | CT    |                 |
| 1500                 | Gilead        | S 14-S        | 1610 NL 330 EL  | SE | Pearce; Hydrocarb. Liquids    | 3        | C. L. Wood            | 4-22       | €cr          | --         | --            | --   | 3399        | Pool   | RT    |                 |
| 1501                 | Gilead        | S 34          | 975 NL 290 EL   | NE | Art Roach                     | 1        | C. I. Ganson          | 4-23       | €cr          | --         | --            | --   | 3273        | Pool   | RT    |                 |
| 1502                 | Harmony       | L 8 (3Q)      | 165 SL 1290 EL  |    | W. & V. Simmons               | 2        | M. J. Lloyd           | 5-?        | €cr          | --         | --            | --   | 3550        | Pool   | RT    |                 |
| 1503                 | Gilead        | S 18          | 1160 SL 151 EL  | NW | Howard D. Atha                | 1        | F. & E. Higgins       | 4-24       | €cr          | --         | --            | --   | 3475        | Out    | RT    |                 |
| 1504                 | Cardington    | S 4           | 1320 SL 200 EL  | SE | Ashland O. & R. Co.           | 1        | Lee & Lee             | 6-15       | €cr          | Acid       | --            | 480  | 3175        | Pool   | RT    |                 |
| 1505                 | Gilead        | S 27          | 1650 NL 1650 WL | NW | Ashland O. & R. Co.           | 4        | A. & F. McPeck        | 4-30       | €cr          | --         | --            | --   | 3275        | Pool   | RT    |                 |
| 1506                 | Harmony       | L 3 (2Q)      | 510 NL 990 EL   |    | Jack W. Holtz                 | 1        | D. & H. George        | 5-12       | €cr          | --         | --            | --   | 3565        | Pool   | RT    |                 |
| 1507                 | Harmony       | L 4 (2Q)      | 330 NL 330 WL   |    | Jack W. Holtz                 | 1        | C. & A. Boyle         | 4-27       | €cr          | --         | --            | --   | 3584        | Out    | RT    |                 |
| 1508                 | Chester       | L 36 (3Q)     | 330 SL 330 EL   |    | Dee Bannister                 | 1        | C. & M. Kemmer        | 4-24       | €cr          | --         | --            | --   | 3823        | Out    | RT    |                 |
| 1509                 | Lincoln       | S 17 (3Q)     | 467 SL 93 EL    | NE | Kin-Ark Oil Co.               | 1        | Chaffin-Coomer        | 4-24       | €cr          | --         | --            | --   | 3275        | Pool   | RT    |                 |
| 1510                 | Peru          | L 14 (3Q)     | 330 NL 1200 EL  |    | Davis Dlg. Co.                | 1        | D. & M. Silveous      | 6-3        | €cr          | Acid       | --            | 100  | 3087        | Pool   | CT    | Gas 40 MCF      |
| 1511                 | Gilead        | S 15-S        | 336 SL 1650 EL  | NE | Midland Dlg. Co.              | 1-B      | O. & F. Horn          | 4-29       | €cr          | --         | --            | --   | 3301        | Pool   | RT    |                 |
| 1512                 | Cardington    | S 23          | 1820 SL 1350 EL | SE | Ashland O. & R. Co.           | 6        | J. & M. Mosher        |            |              |            |               |      |             | Pool   | RT    | Canceled        |
| 1513                 | Peru          | L 1 (3Q)      | 753 SL 425 EL   |    | Alum Creek O. & G. Co.        | 1        | W. & M. Myers         | 5-24       | €cr          | --         | --            | --   | 3286        | FWC    | RT    |                 |
| 1514                 | Franklin      | S 10          | 330 SL 330 WL   | SE | Willard & Love                | 1        | J. & J. Waite         | 9-6        | €cr          | --         | --            | --   | 3791        | Out    | CT    |                 |
| 1515                 | Bennington    | S 19 (4Q)     | 2103 NL 330 WL  | SW | C. Martin; Southern Indep.    | 1        | Charles Searles       | 5-4        | €cr          | Acid       | --            | 480  | 3548        | Pool   | RT    |                 |
| 1516                 | Westfield     | S 15 (4Q)     | 1490 NL 330 EL  |    | Kin-Ark Oil Co.               | 1        | G. & S. Lichtenberger | 4-25       | €cr          | Acid       | --            | 36   | 3175        | FWC    | RT    | Discovery       |
| 1517                 | Cardington    | S 14          | 330 NL 830 WL   | NW | Ashland O. & R. Co.           | 1        | R. Levering           |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 1518                 | S. Bloomfield | S 6           | 610 SL 356 WL   | SE | POC Oil Corp.                 | 3-A      | T. & J. Ray           | 6-17       | €cr          | --         | --            | --   | 3880        | FWC    | RT    |                 |
| 1519                 | S. Bloomfield | S 15          | 50 NL 437 WL    | NE | POC Oil Corp.                 | 3-B      | T. & J. Ray           |            |              |            |               |      |             | FWC    | RT    | Abd. loc.       |
| 1520                 | S. Bloomfield | S 15          | 710 NL 1169 WL  | NE | POC Oil Corp.                 | 4-A      | T. & J. Ray           |            |              |            |               |      |             | FWC    | RT    | Abd. loc.       |
| 1521                 | Chester       | L 12 (3Q)     | 1320 SL 330 WL  |    | David Herley                  | 2        | Charles Kidwell       |            |              |            |               |      |             | Pool   | CT    | Abd. loc.       |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator                   | Well No. | Lease                | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|---------------|---------------|-----------------|----------------------------|----------|----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |               |               |                 |                            |          |                      |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |               |               |                 |                            |          |                      |            |              |            |               |      |             |        |       |                    |
| 1522                 | Chester       | L 12 (3Q)     | 330 SL 330 WL   | David Herley               | 3        | Charles Kidwell      |            |              |            |               |      |             | Pool   | CT    | Abd. loc.          |
| 1523                 | Chester       | L 12 (3Q)     | 1140 SL 325 EL  | David Herley               | 4        | Charles Kidwell      |            |              |            |               |      |             | Pool   | CT    | Abd. loc.          |
| 1524                 | Gilead        | S 26-W        | 990 NL 1500 EL  | Ashland O. & R. Co.        | 3        | J. H. Kelley         |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 1525                 | Gilead        | S 26-W        | 330 NL 2160 EL  | Ashland O. & R. Co.        | 4        | J. H. Kelley         |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1526                 | Gilead        | S 27          | 990 NL 1768 WL  | Ashland O. & R. Co.        | 5        | J. H. Kelley         |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1527                 | Gilead        | S 27          | 990 NL 1108 WL  | Ashland O. & R. Co.        | 6        | R. & F. McPeek       |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1528                 | Gilead        | S 27          | 990 NL 448 WL   | Ashland O. & R. Co.        | 7        | R. & F. McPeek       | 4-30       | €cr          | --         | --            | --   | 3260        | Pool   | RT    |                    |
| 1529                 | Cardington    | S 23          | 1620 NL 1350 EL | Ashland O. & R. Co.        | 7        | J. & M. Mosher       |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1530                 | Chester       | L 21 (3Q)     | 330 SL 330 EL   | Tri-State Prod. Co.        | 3        | Charles Kidwell      | 6-?        | €cr          | --         | --            | --   | 3810        | Pool   | RT    |                    |
| 1531                 | Franklin      | L 12 (3Q)     | 330 NL 330 WL   | Ralph H. Hamblin           | 1        | J. C. Waite          | 6-3        | €cr          | --         | --            | --   | 3961        | Pool   | CT    |                    |
| 1532                 | Lincoln       | L 17 (2Q)     | 655 SL 500 EL   | Chief Dlg., Inc. (F. Cox)  | 1        | C. Denton            | 5-18       | €cr          | --         | --            | --   | 3104        | Out    | RT    |                    |
| 1533                 | Gilead        | S 22-S        | 200 NL 1380 EL  | Ashland O. & R. Co.        | 1        | Mosher-Curts         | 5-1        | €cr          | --         | --            | --   | 3287        | Pool   | RT    |                    |
| 1534                 | S. Bloomfield | S 3           | 330 NL 330 WL   | C. E. Ringler              | 1        | W. H. Meiser         | 7-19       | €cr          | --         | --            | --   | 3980        | Pool   | CT    | Replaces P-1210    |
| 1535                 | Chester       | L 10 (3Q)     | 990 NL 462 EL   | Prior Oil Co.              | 1        | W. & L. Bean         | 6-9        | €cr          | --         | --            | --   | 3855        | Pool   | RT    |                    |
| 1536                 | Chester       | L 11 (3Q)     | 405 SL 1010 WL  | Prior Oil Co.              | 1        | J. & W. Waite        | 6-15       | €cr          | --         | --            | --   | 3836        | Pool   | RT    |                    |
| 1537                 | Chester       | L 11 (3Q)     | 547 SL 330 EL   | Prior Oil Co.              | 2        | J. & W. Waite        | 6-3        | €cr          | --         | --            | --   | 3830        | Pool   | RT    |                    |
| 1538                 | Chester       | L 7 (3Q)      | 330 SL 330 EL   | Prior Oil Co.              | 1        | H. & M. Squires      |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1539                 | Perry         | S 20          | 1683 NL 297 WL  | Mutual Pet. Co.            | 1        | E. & M. Hershner     | 8-19       | €cr          | --         | --            | --   | 3995        | FWC    | CT    |                    |
| 1540                 | N. Bloomfield | S 10          | 890 NL 555 EL   | Well Supervision, Inc.     | 1        | D. & M. Caldwell     |            |              |            |               |      |             | FWC    | CT    | Abd. loc.          |
| 1541                 | Harmony       | L 23 (4Q)     | 50 NL 1200 WL   | Southern Triangle Oil Co.  | 1        | D. L. Wultz          | 5-5        | €cr          | --         | --            | --   | 3695        | Pool   | RT    |                    |
| 1542                 | Gilead        | S 26-E        | 330 SL 1122 WL  | Southern Triangle Oil Co.  | 1        | R. & R. Miller       | 7-22       | €cr          | --         | --            | --   | 3281        | Pool   | RT    |                    |
| 1543                 | Cardington    | L 9           | 422 NL 791 WL   | Jenkins Engineering        | 3        | Hardman              | 6-10       | €cr          | --         | --            | --   | 3110        | Pool   | RT    |                    |
| 1544                 | Cardington    | S 22          | 1288 NL 2230 WL | Ashland O. & R. Co.        | 4        | M. & R. Hack         |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 1545                 | Canaan        | S 34          | 1650 SL 330 WL  | Ashland O. & R. Co.        | 2        | R. & M. Bush         | 8-28       | €cr          | Acid       | --            | 420  | 3160        | Pool   | RT    | Replaces P-999     |
| 1546                 | Gilead        | S 26-E        | 330 SL 1122 WL  | Southern Triangle Oil      | 1        | E. M. Curts          |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 1547                 | Gilead        | S 2-W         | 1650 SL 990 EL  | Ashland O. & R. Co.        | A-1      | Whitney-Jolly-Olds   | 5-25       | €cr          | Acid       | --            | 288  | 3240        | Pool   | RT    |                    |
| 1548                 | Cardington    | S 14          | 1525 SL 330 WL  | Ashland O. & R. Co.        | 1        | G. Simmons           |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1549                 | Cardington    | S 3           | 2310 NL 2050 EL | Ashland O. & R. Co.        | A-1      | R. M. Bush           | 5-11       | €cr          | --         | --            | --   | 3175        | Pool   | RT    |                    |
| 1550                 | Bennington    | L 24 (3Q)     | 400 SL 1675 EL  | Don Baines Dlg. Co.        | 2        | Clayton Fisher       | 1-19       | €cr          | --         | 3500          | --   | 3510        | Pool   | RT    | Replaces P-1192    |
| 1551                 | Cardington    | S 4           | 2570 SL 330 EL  | Ashland O. & R. Co.        | 3        | H. & M. Lee          |            |              |            |               |      |             | Pool   | RT    | Replaces P-2009    |
| 1552                 | Cardington    | S 15          | 835 SL 330 EL   | Ashland O. & R. Co.        | 8        | V. G. Ullom          |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 1553                 | Cardington    | S 15          | 1495 SL 330 EL  | Ashland O. & R. Co.        | 9        | V. G. Ullom          | 5-26       | €cr          | --         | --            | --   | 3205        | Pool   | RT    |                    |
| 1554                 | Cardington    | S 22          | 1108 SL 2375 EL | Ashland O. & R. Co.        | 5        | V. G. Ullom          | 5-7        | €cr          | Frac       | --            | 288  | 3175        | Pool   | RT    |                    |
| 1555                 | Lincoln       | L 12 (2Q)     | 330 SL 330 EL   | Kenneth R. Ingle           | 2        | Walter Sage          | 6-28       | €cr          | --         | --            | --   | 3133        | Pool   | RT    |                    |
| 1556                 | Lincoln       | L 12 (2Q)     | 532 SL 1441 WL  | Kenneth R. Ingle           | 3        | Walter Sage          |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 1557                 | Gilead        | S 3           | 388 SL 543 WL   | Comanche Oil Co.           | 3-C      | R. L. Sipe           | 5-4        | €cr          | --         | --            | --   | 3190        | Pool   | RT    |                    |
| 1558                 | Gilead        | S 31          | 660 SL 660 WL   | Tri-State Prod. Co.        | 1        | Morrow Co. Infirmary |            |              |            |               |      |             | Out    | RT    | Replaced by P-1744 |
| 1559                 | Bennington    | L 2 (2Q)      | 170 NL 4493 EL  | Gibson Oil; Sam Cassidy    | 1        | J. W. Estey          | 5-20       | €cr          | --         | --            | --   | 3483        | Pool   | RT    |                    |
| 1560                 | Bennington    | L 3 (1Q)      | 330 SL 1008 EL  | L. B. Jackson Co.          | 1        | R. & N. Grandstaff   | 5-23       | €cr          | --         | --            | --   | 3825        | Out    | RT    |                    |
| 1561                 | Gilead        | S 13          | 918 SL 310 EL   | J. W. Vandever             | 2        | Ira Lawyer           | 6-14       | €cr          | Acid       | --            | 40   | 3325        | Pool   | RT    |                    |
| 1562                 | Gilead        | S 6           | 890 NL 832 EL   | Hobson Oil Co.             | 2        | S. & V. Hobson       | 7-2        | €cr          | --         | --            | --   | 3458        | Out    | RT    |                    |
| 1563                 | Canaan        | S 10          | 330 NL 700 EL   | Hobson Oil Co.             | 1        | F. & V. Furniss      | 5-8        | €cr          | --         | --            | --   | 3122        | FWC    | RT    |                    |
| 1564                 | Westfield     | L 2 (2Q)      | 1150 SL 330 EL  | Patrick Pet. Co.           | 1        | W. & B. Clutter      | 6-4        | €cr          | --         | --            | --   | 2868        | FWC    | CT    |                    |
| 1565                 | Gilead        | S 15          | 330 SL 660 WL   | Don Baines Dlg. Co.        | 1-B      | J. & E. Lewis        | 5-16       | €cr          | Nat?       | --            | 80   | 3098        | Pool   | RT    |                    |
| 1566                 | N. Bloomfield | S 7           | 330 SL 980 WL   | Petroleum Promotions, Inc. | 1        | J. & V. Ruelle       | 6-5        | €cr          | --         | --            | --   | 3470        | FWC    | CT    |                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        |    | Operator                      | Well No. | Lease             | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                             |
|----------------------|---------------|---------------|-----------------|----|-------------------------------|----------|-------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-------------------------------------|
|                      |               |               |                 |    |                               |          |                   |            |              |            | MCFGPD        | BOPD |             |        |       |                                     |
| MORROW COUNTY (con.) |               |               |                 |    |                               |          |                   |            |              |            |               |      |             |        |       |                                     |
| 1567                 | Gilead        | S 30          | 980 SL 830 EL   | SE | Blair & Morse, Inc.           | 2        | C. & M. Ward      | 5-14       | €cr          | --         | --            | --   | 3605        | NWC    | RT    | Replaces P-573<br>Abd. loc.         |
| 1568                 | Harmony       | S 1           | 330 NL 330 EL   | SE | Williams & Thornhill          | 1        | N. & M. Ault      | 5-10       | €cr          | Acid       | --            | --   | 3754        | FWC    | RT    |                                     |
| 1569                 | Chester       | L 25 (3Q)     | 330 NL 1005 WL  |    | Frank O. Cox                  | 1        | R. E. Stone       |            |              |            |               |      |             | Out    | CT    |                                     |
| 1570                 | Lincoln       | L 12 (2Q)     | 1010 SL 103 EL  |    | Frank O. Cox                  | 1        | M. & M. Barry     | 6-17       | €cr          | Acid       | --            | 72   | 3136        | Pool   | CT    |                                     |
| 1571                 | Gilead        | S 2-W         | 330 SL 600 WL   | NW | Mammoth Prod. Co.             | A-1      | E. G. Brinkman    | 5-5        | €cr          | --         | --            | --   | 3128        | Pool   | RT    | Replaces P-890                      |
| 1572                 | Gilead        | S 2-W         | 1100 SL 600 WL  | NW | Mammoth Prod. Co.             | A-2      | E. G. Brinkman    |            |              |            |               |      |             | Pool   | RT    | Replaces P-891                      |
| 1573                 | Harmony       | L 8 (3Q)      | 510 SL 590 EL   |    | Mammoth Prod. Co.             | 1        | J. Blanpain       | 4-4        | €cr          | --         | --            | --   | 3557        | Pool   | RT    |                                     |
| 1574                 | Gilead        | S 11          | 900 SL 1200 EL  | NE | Bill Allen & Assoc.           | 1        | H. & P. McWhirk   | 5-11       | €cr          | --         | --            | --   | 3401        | Pool   | RT    |                                     |
| 1575                 | Cardington    | S 21          | 600 SL 958 WL   | SE | Falese Oil Co.                | 1        | M. Lamprecht      | 5-8        | €cr          | --         | --            | --   | 3110        | Pool   | RT    |                                     |
| 1576                 | Gilead        | S 10          | 650 NL 330 WL   | NW | Comanche Oil Co.              | 1-C      | M. Ramborger      | 5-16       | €cr          | --         | --            | --   | 3215        | Pool   | RT    |                                     |
| 1577                 | Bennington    | L 11 (2Q)     | 330 SL 330 EL   |    | Comanche Oil Co.              | 1        | N. & E. Westbrook | 6-15       | €cr          | --         | --            | --   | 3463        | Out    | CT    | Abd. loc.                           |
| 1578                 | Gilead        | S 22-S        | 330 NL 200 WL   | NW | Ashland O. & R. Co.           | 8        | J. & M. Mosher    |            |              |            |               |      |             | Pool   | RT    |                                     |
| 1579                 | Franklin      | S 12          | 330 NL 1651 EL  | NE | Williams & Thornhill          | 1        | D. & K. Sherman   | 5-14       | €cr          | --         | --            | --   | 4000        | FWC    | RT    |                                     |
| 1580                 | Peru          | L 15 (1Q)     | 700 NL 1490 EL  |    | Kin-Ark Oil Co.               | 3        | Shaver-Neff       | 5-11       | €cr          | Acid       | --            | 400  | 3207        | Pool   | RT    |                                     |
| 1581                 | Lincoln       | L 33 (2Q)     | 1005 NL 1315 EL |    | Virgil H. Watson              | 1        | L. R. Powell      | 8-3        | €cr          | --         | --            | --   | 3448        | Pool   | CT    |                                     |
| 1582                 | Harmony       | L 36 (4Q)     | 300 SL 1100 WL  |    | Cavalier Oil Co.              | 1        | M. Phillips       | 5-21       | €cr          | --         | --            | --   | 3599        | Pool   | RT    | Oil 10 BPD                          |
| 1583                 | Harmony       | L 2 (3Q)      | 600 SL 300 WL   |    | Cavalier Oil Co.              | 1        | W. & V. McFarland | 5-13       | €cr          | --         | --            | --   | 3505        | Pool   | RT    |                                     |
| 1584                 | Cardington    | L 11          | 545 SL 790 WL   |    | Obie Shaw                     | 1        | M. & M. Barry     | 5-16       | €cr          | --         | --            | --   | 3126        | Pool   | RT    |                                     |
| 1585                 | Franklin      | L 21 (4Q)     | 1002 NL 812 EL  |    | Investment Corp. of Amer.     | 1        | R. & A. Rheinbolt | 5-20       | €cr          | --         | --            | --   | 3955        | Pool   | RT    |                                     |
| 1586                 | S. Bloomfield | S 5           | 330 NL 330 WL   | NW | Obie Shaw                     | 1        | M. Long           | 6-11       | €cr          | --         | --            | --   | 3799        | FWC    | CT    |                                     |
| 1587                 | Chester       | L 10 (3Q)     | 330 NL 330 EL   |    | Prior Oil Co.                 | 2        | W. & L. Bean      | 6-9        | €cr          | --         | --            | --   | 3855        | Pool   | CT    | Discovery                           |
| 1588                 | Perry         | S 7           | 332 SL 654 EL   | SW | Astro Pet. & Invest.          | 4        | H. A. LeMons      | 5-21       | Snb          | Nat        | 2100          | --   | 1571        | Pool   | CT    |                                     |
| 1589                 | Westfield     | S 19          | 330 NL 1355 WL  |    | Gibbs Oil Co.                 | 1        | A. & L. Faust     | 5-12       | €cr          | --         | --            | --   | 2906        | Pool   | RT    |                                     |
| 1590                 | Chester       | L 4 (2Q)      | 1150 SL 400 EL  |    | Williams & Thornhill          | 1        | N. & M. Ault      | 6-11       | €cr          | Acid       | 2400          | --   | 3676        | NWC    | CT    |                                     |
| 1591                 | Lincoln       | L 35 (1Q)     | 330 SL 330 WL   |    | Moore; Lake Shore P. L.       | 2        | A. & G. Thomas    | 5-12       | €cr          | --         | --            | --   | 3190        | Pool   | RT    |                                     |
| 1592                 | Lincoln       | L 2 (2Q)      | 330 NL 700 WL   |    | Kenneth R. Ingle              | 1        | R. & C. Thompson  | 6-17       | €cr          | --         | --            | --   | 3165        | Pool   | CT    | Wtr. 10 BPD                         |
| 1593                 | Congress      | S 24          | 330 NL 330 EL   | NW | Williams & Thornhill          | 1        | R. & M. Smith     | 5-28       | €cr          | --         | --            | --   | 4015        | FWC    | RT    |                                     |
| 1594                 | Cardington    | S 3           | 990 SL 330 EL   | SE | Perry Fulk, Sr.               | 1-A      | R. & R. Wuertz    | 5-14       | €cr          | Acid       | --            | 100  | 3190        | Pool   | RT    |                                     |
| 1595                 | Canaan        | S 31          | 330 NL 330 WL   | SW | Bill Allen & Assoc.           | 1        | Virgil Bailey     | 6-12       | €cr          | --         | --            | --   | 2985        | Out    | RT    |                                     |
| 1596                 | Lincoln       | L 14 (2Q)     | 450 NL 370 WL   |    | Frank O. Cox                  | 1        | L. D. Kirkpatrick | 7-18       | €cr          | --         | --            | --   | 3100        | Pool   | CT    |                                     |
| 1597                 | S. Bloomfield | S 25          | 845 NL 330 WL   | SE | Hanson-Collier                | 1        | Hermes Hankins    | 7-20       | €cr          | --         | --            | --   | 3825        | FWC    | CT    |                                     |
| 1598                 | Canaan        | S 10          | 990 SL 1120 WL  |    | Kin-Ark Oil Co.               | 1        | M. L. McCullough  | 5-22       | €cr          | --         | --            | --   | 3141        | NWC    | CT    |                                     |
| 1599                 | Cardington    | S 11          | 1100 NL 1500 EL | NE | J. Moore; B. T. A.; Trittipio | A-1      | R. & M. Hess      | 5-23       | €cr          | --         | --            | --   | 3250        | Pool   | RT    |                                     |
| 1600                 | Gilead        | S 1           | 1212 NL 471 WL  | NW | Glen Montgomery               | 1        | B. M. Bratton     | 5-23       | €cr          | --         | --            | --   | 3345        | Pool   | RT    |                                     |
| 1601                 | Congress      | S 2           | 625 NL 231 EL   |    | E. R. Thomas                  | 1        | C. & N. Perkins   | 7-9        | €cr          | --         | --            | --   | 3920        | FWC    | CT    |                                     |
| 1602                 | Peru          | L 12 (1Q)     | 690 NL 840 EL   |    | Bill Allen & Assoc.           | 1        | D. Miracle        | 5-23       | €cr          | --         | --            | --   | 3225        | Pool   | RT    | Replaces P-477                      |
| 1603                 | Peru          | L 13 (1Q)     | 123 SL 1020 EL  |    | Bill D. Vaught                | 1        | R. & A. Adams     | 7-2        | €cr          | --         | --            | --   | 3187        | Pool   | RT    |                                     |
| 1604                 | Gilead        | S 2           | 1380 SL 685 WL  | NE | Barron Oil Co.                | 1        | Dorothy Graham    | 6-13       | €cr          | Acid       | --            | 50   | 3260        | Pool   | RT    |                                     |
| 1605                 | Gilead        | S 34          | 230 NL 230 EL   | NE | Cheatham & Glenwood O. & G.   | 1        | J. & E. Smith     | 5-22       | €cr          | --         | --            | --   | 3252        | Pool   | RT    |                                     |
| 1606                 | Gilead        | S 14          | 990 SL 721 WL   | SE | L. H. Service Co.             | 1        | F. & M. Jackson   | 10-1       | €cr          | Acid       | --            | 75   | 3270        | Pool   | RT    |                                     |
| 1607                 | Gilead        | S 2           | 250 NL 500 EL   | SE | L. H. Service Co.             | 1        | J. & E. Bostic    | 5-22       | €cr          | --         | --            | --   | 3257        | Pool   | RT    | Oil 10 BPD Wtr. 10 BPD<br>Abd. loc. |
| 1608                 | Lincoln       | L 32 (1Q)     | 220 NL 189 WL   |    | J. F. Canterbury              | 2        | D. & E. Dunham    | 7-2        | €cr          | Acid       | --            | --   | 3169        | Pool   | RT    |                                     |
| 1609                 | Gilead        | S 1           | 1290 NL 1340 WL | NW | C. A. Kniffin                 | 1        | Boy Scouts        |            |              |            |               |      |             | Pool   | RT    |                                     |
| 1610                 | Gilead        | S 14          | 1685 NL 941 WL  | NW | Hobson Oil Co.                | 1        | W. Shipley        | 8-30       | €cr          | --         | --            | --   | 3351        | Pool   | RT    |                                     |
| 1611                 | Chester       | L 1-W (1Q)    | 330 NL 990 EL   |    | Prospectors, Inc.             | 2        | K. & H. Mosher    | 6-22       | €cr          | --         | --            | --   | 3935        | Pool   | RT    | Replaces P-1083                     |

LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                    | Lease | Date Comp.          | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks  |
|----------------------|---------------|---------------|-----------------|----------|-----------------------------|-------|---------------------|--------------|------------|---------------|------|-------------|--------|-------|--|
|                      |               |               |                 |          |                             |       |                     |              |            | MCFGPD        | BOPD |             |        |       |  |
| MORROW COUNTY (con.) |               |               |                 |          |                             |       |                     |              |            |               |      |             |        |       |  |
| 1612                 | N. Bloomfield | S 28          | 990 NL 990 EL   | SE       | Prospectors, Inc.           | 1     | J. C. Smith         | 6-10         | €cr        | --            | --   | 3831        | FWC    | RT    | Replaces P-1084  |
| 1613                 | Cardington    | L 18          | 330 SL 330 EL   |          | Mammoth Prod. Co.           | 1     | H. & M. Willey      | 5-23         | €cr        | --            | --   | 3099        | Pool   | RT    |  |
| 1614                 | Gilead        | S 3           | 1230 SL 1070 EL | NE       | Bauer Bros. (S. Cassidy)    | A-3   | Ruth Newson         | 10-26        | €cr        | --            | --   | 3191        | Pool   | RT    |  |
| 1615                 | Peru          | L 12 (1Q)     | 69 SL 696 EL    |          | Lake Shore Pipe Line        | 1     | E. & L. Tretow      | 5-18         | €cr        | Acid          | --   | 500         | Pool   | RT    |  |
| 1616                 | Westfield     | L 8 (1Q)      | 485 SL 330 WL   |          | Woody Jones Dlg. Co.        | 1     | Iva Bond            | 6-4          | --         | --            | --   | --          | FWC    | CT    | Lost hole 127 ft.  |
| 1617                 | Cardington    | S 4           | 2310 NL 330 WL  | NW       | Ashland O. & R. Co.         | 1     | E. Snyder           |              |            |               |      |             | Pool   | RT    | Replaced by P-1659<br>Oil 10 BPD Wtr. 3 BPD<br>Abd. loc. |
| 1618                 | Gilead        | S 13          | 915 NL 666 WL   | NE       | Fred Jackson                | 1     | M. & E. Dumbaugh    | 9-24         | €cr        | Acid          | --   | 3352        | Pool   | CT    |  |
| 1619                 | Congress      | S 20          | 330 SL 330 WL   | SW       | Fred Jackson                | 1     | Erma Walter         |              |            |               |      |             | FWC    | CT    |  |
| 1620                 | Cardington    | S 17          | 2080 NL 230 EL  | NE       | Ashland O. & R. Co.         | 1     | C. & J. Winchell    | 5-22         | €cr        | Acid          | --   | 380         | Pool   | RT    |  |
| 1621                 | Cardington    | S 16          | 2240 NL 100 WL  | NW       | Ashland O. & R. Co.         | 3     | E. Burgraff         |              |            |               |      |             | Pool   | RT    | Abd. loc.  |
| 1622                 | Lincoln       | L 16 (4Q)     | 1445 SL 700 EL  |          | Nation Oil Co.              | 1     | M. McKibbin         | 5-20         | €cr        | --            | --   | 3281        | FWC    | RT    | Abd. loc.<br>Canceled                                    |
| 1623                 | Cardington    | S 16          | 2540 NL 330 EL  | NE       | Ashland O. & R. Co.         | 2     | E. Burgraff         |              |            |               |      |             | Pool   | RT    |  |
| 1624                 | Cardington    | S 17          | 1420 NL 330 EL  | NE       | Ashland O. & R. Co.         | 2     | C. & J. Winchell    |              |            |               |      |             | Pool   | RT    |  |
| 1625                 | Chester       | L 11 (2Q)     | 1300 NL 1200 WL |          | Southern Triangle Oil       | 1     | C. James            | 6-16         | €cr        | --            | --   | 3684        | FWC    | RT    | Replaces P-523   |
| 1626                 | Gilead        | S 3           | 1550 NL 489 WL  | NW       | Moore; Kin-Ark Oil          | 2     | Nina Kincade        | 5-18         | €cr        | Acid          | --   | 60          | Pool   | RT    |  |
| 1627                 | Troy          | S 31          | 238 SL 2580 EL  | SE       | Sekely Products, Inc.       | 1     | Noble Cunningham    | 9-9          | Omc?       | --            | --   | 3051        | FWC    | CT    | Lost hole  |
| 1628                 | Harmony       | L 14 (3Q)     | 330 SL 1440 WL  |          | Cavalier Oil Co.            | 6     | E. & A. Davis       | 5-26         | €cr        | Acid          | --   | 100         | Pool   | RT    |  |
| 1629                 | Lincoln       | S 17          | 330 NL 330 WL   | NW       | Fulk, Jr. & Schwetz         | 1     | Lowell Murphy       | 5-23         | €cr        | --            | --   | 3050        | Pool   | RT    |  |
| 1630                 | Peru          | L 12 (1Q)     | 680 NL 225 EL   |          | Kniffen; Great Lakes Oil    | 1     | Butler-Webb         | 6-16         | €cr        | Acid          | --   | 100         | Pool   | RT    |  |
| 1631                 | Canaan        | S 16          | 426 NL 281 EL   | NE       | Ideal Dlg. Co.              | 1     | Lester Bending      | 5-23         | €cr        | --            | --   | 3040        | NWC    | RT    |  |
| 1632                 | N. Bloomfield | S 11          | 321 SL 991 WL   | SE       | Cheatham; Glenwood O. & G.  | 1     | C. M. Heffley       | 6-3          | €cr        | --            | --   | 3960        | FWC    | RT    |  |
| 1633                 | Peru          | L 12 (3Q)     | 615 NL 2200 EL  |          | Merle B. Piper              | 1     | Neta Keener         | 7-12         | €cr        | --            | --   | 3065        | FWC    | CT    |  |
| 1634                 | Gilead        | S 23          | 1311 NL 1310 EL | NW       | Don Baines Dlg. Co.         | 1     | D. & S. Ferguson    | 5-26         | €cr        | Acid          | --   | 150         | Pool   | RT    |  |
| 1635                 | Gilead        | S 30          | 940 SL 230 WL   | NE       | Gibbs Oil Co.               | 1     | R. & P. Proper      | 5-29         | €cr        | --            | --   | 3572        | Out    | RT    |  |
| 1636                 | Chester       | L 39 (4Q)     | 570 NL 653 EL   |          | Barron Oil Co.              | 1     | Bernice Kidwell     | 6-1          | €cr        | --            | --   | 3817        | NWC    | RT    |  |
| 1637                 | Harmony       | S 1           | 920 NL 1550 EL  | SE       | Williams & Thornhill        | 1     | C. & M. Edmundson   | 5-29         | €cr        | --            | --   | 3564        | FWC    | RT    |  |
| 1638                 | Cardington    | S 3           | 1090 SL 890 EL  | SE       | Perry Fulk, Sr.             | 2-A   | R. & R. Wuertz      | 5-21         | €cr        | Acid          | --   | 400         | Pool   | RT    |  |
| 1639                 | Lincoln       | L 5 (1Q)      | 710 NL 300 WL   |          | Comanche Oil Co.            | 1     | F. J. Foltz         | 5-29         | €cr        | --            | --   | 3245        | Pool   | RT    |  |
| 1640                 | Perry         | S 7           | 422 SL 2320 WL  | SW       | Astro Pet. & Invest.        | 1     | O. E. Williams      |              |            |               |      |             | FWC    | RT    |  |
| 1641                 | Gilead        | S 2-E         | 230 SL 910 WL   | SW       | Comanche Oil Co.            | 1     | Mt. Gilead Village  | 6-23         | €cr        | --            | --   | 3267        | Pool   | RT    |  |
| 1642                 | Gilead        | S 3           | 920 SL 198 EL   | SE       | Comanche Oil Co.            | 3     | Gale Westbrook      | 7-20         | €cr        | Nat?          | --   | 150         | Pool   | RT    |  |
| 1643                 | Harmony       | L 22 (4Q)     | 499 SL 330 WL   |          | Mt. Carmel Dlg. Co.         | 1     | N. L. Lindeman      | 6-12         | €cr        | --            | --   | 3730        | NWC    | RT    |  |
| 1644                 | Perry         | S 5           | 840 SL 727 WL   |          | Null & Covey                | 1     | Edna Smith          | 7-16         | €cr        | --            | --   | 3935        | FWC    | CT    |  |
| 1645                 | Gilead        | S 22          | 63 NL 860 WL    | NE       | McLean Oil Field Equip.     | 2     | Grace Offutt        | 7-5          | €cr        | Acid          | --   | 35          | Pool   | RT    |  |
| 1646                 | Gilead        | S 2-W         | 1044 SL 1083 EL | SE       | Ashland O. & R. Co.         | A-2   | Whitney-Jolley-Olds | 7-2          | €cr        | Acid          | --   | 48          | Pool   | RT    | Wtr. 35 BPD<br>Wtr. 48 BPD                               |
| 1647                 | Gilead        | S 2-E         | 55 NL 790 WL    | SW       | Scioto Dlg.                 | 1     | Gale Westbrook      | 9-21         | €cr        | --            | --   | 3168        | Pool   | CT    | Discovery  |
| 1648                 | Harmony       | L 6 (4Q)      | 319 SL 975 EL   |          | Chapel Pet. Devel.          | 1     | Richard Benedict    | 8-23         | €cr        | Acid          | --   | 439         | FWC    | CT    |  |
| 1649                 | Lincoln       | L 25 (3Q)     | 228 NL 217 WL   |          | Fred D. Meyer               | 1     | Cecil George        | 7-15         | €cr        | --            | --   | 3278        | Pool   | RT    |  |
| 1650                 | Lincoln       | L 32 (1Q)     | 308 NL 135 WL   |          | Hill Prod. Co.              | 1     | H. & M. Fiant       | 8-18         | €cr        | --            | --   | 3205        | Pool   | RT    |  |
| 1651                 | Harmony       | L 26 (4Q)     | 437 NL 801 EL   |          | K. D. Brown; R. O. Leighton | 1     | W. & T. Arons       | 7-4          | €cr        | --            | --   | 3652        | Out    | CT    |  |
| 1652                 | Gilead        | S 27          | 2170 SL 990 WL  | SW       | Royal O. & G.; Irvin Prod.  | 2     | R. & H. Long        | 6-19         | €cr        | Acid          | --   | 150         | Pool   | CT    | Replaced by P-2362                                       |
| 1653                 | Lincoln       | L 33 (1Q)     | 64 SL 64 WL     |          | Robert E. Strong            | 1     | D. Dunham           | 6-22         | €cr        | --            | --   | 3102        | Pool   | RT    |  |
| 1654                 | Gilead        | S 24          | 287 NL 330 WL   | SW       | Max E. Davis                | 1     | C. & L. Hershner    |              |            |               |      |             | Out    | CT    |  |
| 1655                 | Bennington    | S 19          | 1588 NL 230 WL  | SW       | C. F. Martin                | 2     | Charles Searies     | 6-?          | €cr        | Nat?          | --   | 150         | Pool   | RT    |  |
| 1656                 | Gilead        | S 14          | 430 NL 430 EL   | NE       | Dynamic Mineral Devel.      | 1     | F. & M. Jackson     | 7-2          | €cr        | Acid          | --   | 314         | Pool   | CT    |  |



## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No. | Lease                   | Date Comp. | Deepest Unit         | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |           |                     |
|----------------------|---------------|---------------|-----------------|----------|----------|-------------------------|------------|----------------------|------------|---------------|------|-------------|--------|-------|---------|-----------|---------------------|
| MORROW COUNTY (con.) |               |               |                 |          |          |                         |            |                      |            |               |      |             |        |       |         |           |                     |
| 1657                 | Peru          | L 15 (1Q)     | 1095 SL 1690 WL |          |          | Kin-Ark Oil Co.         | 4          | Shaver-Neff          | 5-26       | €cr           | Acid | --          | 400    | 3204  | Pool    | Discovery |                     |
| 1658                 | Lincoln       | S 17          | 225 SL 1020 EL  | SE       | 1        | Kin-Ark Oil Co.         | 1          | F. & H. Berry        | 6-7        | €cr           | Acid | --          | 430    | 3103  | NWC     |           | RT                  |
| 1659                 | Cardington    | S 4           | 2310 NL 330 WL  | NW       | 1        | John Adams              | 1          | E. Snyder            | 6-7        | €cr           | --   | --          | --     | 3103  | Pool    |           | RT                  |
| 1660                 | Lincoln       | S 24          | 750 SL 1070 EL  | SE       | 1        | W. E. Shrider           | 1          | R. & F. Parsons      | 2-10       | €cr           | Acid | --          | 219    | 3076  | FWC     |           | CT                  |
| 1661                 | Cardington    | S 10          | 330 SL 1316 EL  | SW       | 1        | Pilgrim O. & G. Co.     | 1          | Judith Long          | 6-26       | €cr           | --   | --          | --     | 3096  | Pool    |           | CT                  |
| 1662                 | Lincoln       | L 25 (3Q)     | 450 NL 233 WL   |          | 1        | Bell & Cox Prod. Co.    | 1          | B. M. Fissell        | 7-17       | €cr           | --   | --          | --     | 3325  | Pool    | CT        | Discovery           |
| 1663                 | Gilead        | L 9           | 850 SL 330 WL   |          | 1-A      | Jack W. Holtz           | 1          | J. & C. Henry        | 6-2        | €cr           | --   | --          | --     | 3290  | Pool    | RT        |                     |
| 1664                 | Cardington    | S 16          | 2340 NL 100 WL  | NW       | 1        | Fulk, Jr. & Schwetz     | 1          | E. Burgraff          | 5-30       | €cr           | Acid | --          | 250    | 3086  | Pool    | RT        |                     |
| 1665                 | Cardington    | S 3           | 1550 SL 330 EL  | SE       | 4        | Perry Fulk, Sr.         | 4          | R. & R. Wuertz       | 5-28       | €cr           | Acid | --          | 100    | 3120  | Pool    | RT        |                     |
| 1666                 | Lincoln       | L 37 (1Q)     | 520 SL 65 EL    |          | 1        | Bill Allen & Assoc.     | 1          | F. & E. McDonald     | 6-7        | €cr           | Nat? | --          | 124    | 3270  | Pool    | RT        |                     |
| 1667                 | Bennington    | L 29 (1Q)     | 230 SL 2508 EL  |          | 1        | T. R. Ferguson          | 1          | R. & B. Hogle        | 7-2        | €cr           | --   | --          | --     | 3658  | Pool    | CT        | Discovery           |
| 1668                 | Cardington    | S 5           | 330 NL 330 WL   | SE       | 1        | Charles E. Beck         | 1          | Joanne Kelley        | 6-1        | €cr           | --   | --          | --     | 3106  | Pool    | RT        |                     |
| 1669                 | Peru          | L 1 (1Q)      | 1000 NL 500 EL  |          | 2        | Clinton Oil Co.         | 2          | Foster Mosher        | 6-12       | €cr           | Acid | 500         | 65     | 3227  | Out     | CT        |                     |
| 1670                 | Bennington    | L 1 (1Q)      | 360 NL 1763 EL  |          | 1        | Clinton Oil Co.         | 1          | Linden Chase         | 6-18       | €cr           | --   | --          | --     | 3520  | Pool    | CT        |                     |
| 1671                 | Congress      | S 27          | 1300 SL 330 WL  | NE       | 1        | Ray Fritz               | 1          | H. & M. Osborne      | 10-12      | €cr           | --   | --          | --     | 3857  | FWC     | RT        |                     |
| 1672                 | Gilead        | S 25          | 580 SL 1700 EL  | SE       | 1        | Keillor & Clark         | 1          | Morrow Co. Infirmary | 8-26       | €cr           | --   | --          | --     | 3463  | Pool    | CT        | Discovery           |
| 1673                 | S. Bloomfield | S 3           | 445 NL 690 WL   | NW       | 2        | Keillor & Clark         | 2          | A. G. Schatzman      | 7-7        | €cr           | --   | --          | --     | 3996  | FWC     | RT        |                     |
| 1674                 | Bennington    | S 19          | 1430 NL 230 WL  | NW       | 1-A      | Brasel & Brasel         | 1          | T. C. Bosworth       | 6-22       | €cr           | Acid | --          | 150    | 3560  | Pool    | RT        |                     |
| 1675                 | Franklin      | S 8-E         | 1010 NL 930 EL  | NE       | 1        | Ashland O. & R. Co.     | 1          | Marvin Cook          | 6-26       | €cr           | --   | --          | --     | 4325  | Out     | RT        |                     |
| 1676                 | S. Bloomfield | S 9           | 660 NL 1040 EL  | NW       | 1        | Falese Oil Co.          | 1          | W. H. Meiser         | 6-5        | €cr           | --   | --          | --     | 4075  | FWC     | RT        |                     |
| 1677                 | Gilead        | S 30          | 860 SL 375 EL   | SE       | 3        | Blair & Morse           | 3          | C. & M. Ward         | 6-15       | €cr           | --   | --          | --     | 3664  | Pool    | RT        | PB to €cr           |
| 1678                 | Bennington    | L 24 (3Q)     | 660 NL 1023 EL  |          | 3        | Don Baines Dig. Co.     | 3          | Clayton Fisher       | 6-6        | €cr           | --   | --          | --     | 3623  | Pool    | RT        |                     |
| 1679                 | Cardington    | S 22          | 1165 SL 535 EL  | SE       | 1        | Donald E. Davis         | 1          | A. E. Denton         | 10-?       | €cr           | --   | --          | --     | 3099  | Pool    | RT        |                     |
| 1680                 | Peru          | L 14 (1Q)     | 575 NL 810 EL   |          | 1        | Kin-Ark Oil Co.         | 1          | J. K. Armstrong      | 6-7        | €cr           | --   | --          | --     | 3263  | Pool    | RT        |                     |
| 1681                 | Peru          | L 16 (1Q)     | 965 SL 70 EL    |          | 5        | Kin-Ark Oil Co.         | 5          | Shaver-Neff          | 6-19       | PC            | Acid | --          | 400    | 4215  | Pool    | RT        |                     |
| 1682                 | Bennington    | S 18          | 660 SL 330 EL   | SE       | 1        | Kin-Ark Oil Co.         | 1          | W. W. Darst          | 6-2        | €cr           | --   | --          | --     | 3704  | Pool    | RT        | PB to Snb Discovery |
| 1683                 | Cardington    | S 14          | 1295 SL 565 EL  | SE       | 2-A      | Fulk, Jr. & Schwetz     | 2          | Carrie Philbrook     | 6-3        | €cr           | --   | --          | --     | 3222  | Pool    | RT        |                     |
| 1684                 | Cardington    | S 14          | 1210 SL 496 EL  | SE       | 1-B      | Perry Fulk, Sr.         | 1          | Carrie Philbrook     | 6-4        | €cr           | --   | --          | --     | 3254  | Pool    | RT        |                     |
| 1685                 | Franklin      | S 6           | 2180 NL 3930 WL | NW       | 1        | J. Moore;Belden & Blake | 1          | C. S. Ellis          | 6-4        | €cr           | Acid | 1700        | --     | 4170  | FWC     | RT        |                     |
| 1686                 | Cardington    | S 17          | 250 SL 120 EL   | NE       | 1        | J. W. Vandever          | 1          | E. Burgraff          | 6-4        | €cr           | Acid | --          | 190    | 3055  | Pool    | RT        |                     |
| 1687                 | Cardington    | S 3           | 1090 SL 1550 EL | SE       | 3-A      | Perry Fulk, Sr.         | 3          | R. & R. Wuertz       | 6-8        | €cr           | --   | --          | --     | 3200  | Pool    | RT        | Discovery           |
| 1688                 | Cardington    | S 3           | 430 SL 890 EL   | SE       | 4-A      | Perry Fulk, Sr.         | 4          | R. & R. Wuertz       | 6-12       | €cr           | --   | --          | --     | 3202  | Pool    | RT        |                     |
| 1689                 | Bennington    | S 23          | 1160 NL 230 EL  | NE       | 1        | Keener Oil Co.          | 1          | Robert Fuller        | 7-2        | €cr           | --   | --          | --     | 3586  | Out     | CT        |                     |
| 1690                 | Westfield     | L 11 (2Q)     | 1400 NL 1900 EL |          | 1        | W. T. Denton            | 1          | H. & A. Brandes      | 7-25       | €cr           | --   | --          | --     | 2770  | FWC     | CT        |                     |
| 1691                 | Harmony       | L 8 (3Q)      | 310 SL 685 EL   |          | 1        | Hydrocarbons, Inc.      | 1          | J. Blainpain         | 6-6        | €cr           | --   | --          | --     | 3488  | Pool    | CT        |                     |
| 1692                 | S. Bloomfield | S 18          | 252 NL 1116 EL  | SE       | 1        | Frank O. Cox            | 1          | O. & E. Groves       | 7-11       | €cr           | --   | --          | --     | 4021  | FWC     | CT        | Discovery           |
| 1693                 | Cardington    | S 22          | 260 NL 414 WL   | SW       | 1        | Harry A. Holtom         | 1          | Cardington Unit      | 7-31       | €cr           | --   | --          | --     | 3130  | Pool    | CT        |                     |
| 1694                 | Congress      | S 20          | 1730 NL 297 WL  | NW       | 1        | Keillor & Clark         | 1          | W. & E. McClelland   | 7-12       | €cr           | --   | --          | --     | 3590  | FWC     | CT        |                     |
| 1695                 | Gilead        | S 23          | 1983 NL 540 EL  | NW       | 1        | Don Baines Dig. Co.     | 1          | O. & M. Holt         | 6-6        | €cr           | --   | --          | --     | 3310  | Pool    | RT        |                     |
| 1696                 | Gilead        | S 3           | 230 SL 45 WL    | NE       | A-4      | Bauer Bros;Sam Cassidy  | 4          | Ruth Newson          | 9-1        | €cr           | --   | --          | --     | 3207  | Pool    | CT        |                     |
| 1697                 | Lincoln       | L 40 (4Q)     | 230 SL 230 WL   |          | 1        | Hill Prod. Co.          | 1          | C. & E. Smith        | 6-10       | €cr           | Acid | --          | --     | 3254  | Pool    | RT        | Discovery           |
| 1698                 | Gilead        | S 22-S        | 360 NL 230 EL   | NE       | 1        | Patrick Pet. Co.        | 1          | E. M. Curtis         | 6-11       | €cr           | --   | --          | --     | 3380  | Pool    | RT        |                     |
| 1699                 | Gilead        | S 26-W        | 1030 SL 870 WL  | SW       | 1        | Ashland O. & R. Co.     | 1          | B. H. Adams          | 6-9        | €cr           | Acid | --          | 224    | 3250  | Pool    | RT        |                     |
| 1700                 | Bennington    | S 11 (4Q)     | 230 SL 230 WL   |          | 1        | Buckeye O. & G. Co.     | 1          | Dean Dupee           | 7-12       | €cr           | --   | --          | --     | 3817  | Out     | CT        |                     |
| 1701                 | Cardington    | S 3           | 1550 SL 890 EL  | SE       | 5        | Perry Fulk, Sr.         | 5          | R. & R. Wuertz       | 6-4        | €cr           | --   | --          | --     | 3057  | Pool    | RT        |                     |

LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator                     | Well No. | Lease                | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |        | Total Depth | Class. | Tools | Remarks                |  |
|----------------------|------------|---------------|-----------------|------------------------------|----------|----------------------|------------|--------------|------------|---------------|--------|-------------|--------|-------|------------------------|--|
|                      |            |               |                 |                              |          |                      |            |              |            |               | MCFGPD | BOPD        |        |       |                        |  |
| MORROW COUNTY (con.) |            |               |                 |                              |          |                      |            |              |            |               |        |             |        |       |                        |  |
| 1702                 | Lincoln    | L 18 (4Q)     | 1000 NL 112 EL  | W. H. Patten Dlg. Co.        | 1        | A. & D. Ogle         | 7-10       | €cr          | --         | --            | --     | 3243        | FWC    | CT    | PB to Omc<br>some Wtr. |  |
| 1703                 | Lincoln    | L 11 (4Q)     | 230 NL 1070 WL  | W. H. Patten Dlg. Co.        | 1-A      | C. & M. Reppert      | 8-18       | €cr          | --         | --            | --     | 3270        | Pool   | CT    |                        |  |
| 1704                 | Franklin   | L 21 (4Q)     | 890 NL 200 WL   | Investment Corp. of Amer.    | 2        | A. L. Rheinbolt      | 6-10       | €cr          | ?          | --            | 10     | 3967        | Out    | RT    |                        |  |
| 1705                 | Cardington | S 22          | 1208 NL 510 EL  | Blue-Gray Dlg. Co.           | 1        | Don Maples           | 6-8        | €cr          | Acid       | --            | 20     | 3132        | Pool   | RT    |                        |  |
| 1706                 | Peru       | S 7 (2Q)      | 657 SL 583 EL   | SE Stocker & Sittler         | 1        | H. & C. Crist        | 7-21       | €cr          | Acid       | --            | 350    | 3022        | Out    | CT    |                        |  |
| 1707                 | Cardington | S 14          | 935 NL 324 EL   | SE Patrick Pet. Co.          | 1        | R. & M. Martin       | 6-13       | €cr          | --         | --            | --     | 3245        | Pool   | RT    | Abd. loc.              |  |
| 1708                 | Gilead     | S 11          | 511 SL 211 EL   | NW B. T. A.; J. Moore        | A-1      | H. & P. McWhirk      | 6-17       | €cr          | --         | --            | --     | 3381        | Pool   | RT    |                        |  |
| 1709                 | Gilead     | S 11          | 197 NL 863 EL   | SW B. T. A.; J. Moore        | B-1      | H. & P. McWhirk      |            |              |            |               |        |             | Pool   | RT    |                        |  |
| 1710                 | Cardington | S 15          | 230 NL 672 EL   | NE B. T. A.; J. Moore        | A-1      | V. & H. Hull         | 7-6        | €cr          | Acid       | --            | 180    | 3175        | Pool   | RT    |                        |  |
| 1711                 | Gilead     | S 26-E        | 1650 SL 540 WL  | SE Ideal Dlg. Co.            | 1        | Williams-Campbell    | 6-10       | €cr          | --         | --            | --     | 3410        | Out    | RT    |                        |  |
| 1712                 | Canaan     | S 21          | 990 NL 330 WL   | NE Robert Tatum              | 1        | P. Force             | 6-9        | €cr          | --         | --            | --     | 3210        | Out    | RT    | PB to Omc              |  |
| 1713                 | Congress   | S 1           | 1280 NL 1075 EL | NW Astro. Pet. & Invest.     | 1        | L. & D. Davis        | 7-15       | €cr          | --         | --            | --     | 4011        | FWC    | CT    |                        |  |
| 1714                 | Bennington | L 20 (2Q)     | 230 SL 230 EL   | W. T. McCullough & Co.       | 1        | M. & R. Evans        | 7-22       | €cr          | --         | --            | --     | 3372        | Out    | CT    |                        |  |
| 1715                 | Gilead     | S 14-S        | 1241 NL 230 EL  | SW Delta Pet. Co.            | 1        | Todd-Lust            | 7-20       | €cr          | Acid       | --            | 120    | 3305        | Pool   | RT    |                        |  |
| 1716                 | Peru       | L 13 (1Q)     | 1420 NL 1935 WL | Kin-Ark Oil Co.              | 1        | W. & S. Green        | 6-8        | €cr          | Acid       | --            | 440    | 3300        | Pool   | RT    |                        |  |
| 1717                 | Westfield  | S 13 (4Q)     | 980 NL 630 EL   | Floyd Endicott               | 1        | W. & L. Gattshall    | 8-10       | €cr          | --         | --            | --     | 2819        | FWC    | CT    | PB to Omc              |  |
| 1718                 | Lincoln    | L 7 (1Q)      | 191 SL 300 EL   | Cavaller Oil Co.             | 4        | V. & H. Blakely      | 6-11       | €cr          | --         | --            | --     | 3318        | Pool   | RT    |                        |  |
| 1719                 | Gilead     | S 2-E         | 1515 NL 760 WL  | NE George E. Blackmore       | 1        | Jaggers-Thornton     | 6-21       | €cr          | --         | --            | --     | 3268        | Pool   | RT    |                        |  |
| 1720                 | Gilead     | S 14          | 1105 NL 1450 EL | NE Hobson Oil Co.            | 1        | F. & M. Jackson      | 8-16       | €cr          | Acid       | --            | 500    | 3332        | Pool   | RT    |                        |  |
| 1721                 | Peru       | L 9 (1Q)      | 360 NL 250 WL   | Kin-Ark Oil Co.              | 1        | G. & E. Wheeler      | 6-16       | €cr          | --         | --            | --     | 3200        | Pool   | RT    |                        |  |
| 1722                 | Peru       | L 14 (1Q)     | 281 NL 1270 EL  | Kin-Ark Oil Co.              | 2        | D. C. Barber         | 7-11       | €cr          | Acid       | --            | 400    | 3119        | Pool   | RT    | Abd. loc.              |  |
| 1723                 | Gilead     | S 10          | 245 SL 530 EL   | SE Hobson Oil Co.            | 1        | R. & C. George       | 7-7        | €cr          | --         | --            | --     | 3292        | Pool   | CT    |                        |  |
| 1724                 | Congress   | S 20          | 690 NL 300 WL   | SW Hydrocarbons, Inc.        | 1        | Effie Hollingsworth  | 6-19       | €cr          | --         | --            | --     | 3585        | FWC    | CT    |                        |  |
| 1725                 | Gilead     | S 36          | 409 SL 1105 EL  | SW Thurlow Weed;K.D. Brown   | 1-A      | G. & M. Nixon        | 8-6        | €cr          | --         | --            | --     | 3267        | Pool   | CT    |                        |  |
| 1726                 | Gilead     | S 14-S        | 600 SL 1109 WL  | SW Pilgrim O. & G. Co.       | 1        | W. R. Furbay         | 6-26       | €cr          | --         | --            | --     | 3266        | Pool   | RT    |                        |  |
| 1727                 | Gilead     | S 23          | 690 NL 1280 WL  | NW Don Baines Dlg. Co.       | 2        | D. & S. Ferguson     | 6-14       | €cr          | --         | --            | 50     | 3230        | Pool   | RT    | Abd. loc.              |  |
| 1728                 | Chester    | L 6 (1Q)      | 10 NL 760 WL    | Hobson Oil Co.               | 1        | K. & N. Higgins      |            |              |            |               |        |             | FWC    | CT    |                        |  |
| 1729                 | Chester    | L 6 (1Q)      | 210 NL 1210 WL  | Hobson Oil Co.               | 1        | R. & C. Hunt         | 6-22       | €cr          | --         | --            | --     | 3896        | FWC    | RT    |                        |  |
| 1730                 | Congress   | S 14          | 230 SL 1057 WL  | NE R. O. Leighton            | 1        | Cora Fraley          | 8-12       | €cr          | --         | --            | --     | 3944        | FWC    | CT    |                        |  |
| 1731                 | Peru       | L 1 (3Q)      | 490 SL 985 WL   | Alum Creek O. & G.           | 2        | W. & M. Myers        | 6-14       | €cr          | --         | --            | --     | 3130        | FWC    | RT    |                        |  |
| 1732                 | Franklin   | S 7           | 365 SL 1369 EL  | SW Well Supervision, Inc.    | 1        | Lester Van Winkle    | 7-25       | €cr          | --         | --            | --     | 4000        | Out    | RT    | Replaces P-1558        |  |
| 1733                 | Canaan     | S 16          | 230 NL 1075 EL  | Ideal Dlg. Co.               | 2        | Lester Bending       | 6-16       | €cr          | --         | --            | --     | 2947        | FWC    | RT    |                        |  |
| 1734                 | Peru       | L 6 (1Q)      | 960 SL 935 WL   | Great Lakes Dlg. Co.         | 1        | H. & V. Swint        | 7-2        | €cr          | --         | --            | --     | 3367        | Pool   | RT    |                        |  |
| 1735                 | Gilead     | S 14          | 1060 SL 300 WL  | SE Pearce;Hydrocarbons, Inc. | 4        | C. L. Wood           | 6-21       | €cr          | Acid       | --            | 130    | 3291        | Pool   | RT    |                        |  |
| 1736                 | Gilead     | S 15          | 230 SL 250 WL   | SE Don Baines Dlg. Co.       | 1-C      | J. & E. Lewis        | 6-27       | €cr          | --         | --            | --     | 3178        | Pool   | RT    |                        |  |
| 1737                 | Gilead     | S 26          | 410 SL 1800 WL  | SW Ashland O. & R. Co.       | 2        | B. H. Adams          | 8-15       | €cr          | Acid       | --            | 72     | 3220        | Pool   | RT    | Replaces P-1558        |  |
| 1738                 | Gilead     | S 35-W        | 1635 NL 1590 EL | NE John Adams                | 2        | W. D. Moore          | 7-10       | €cr          | --         | --            | --     | 4011        | Pool   | RT    |                        |  |
| 1739                 | Bennington | S 22          | 330 SL 1650 EL  | NW C. F. Martin              | 1        | James Probst         | 6-21       | €cr          | --         | --            | --     | 3634        | Pool   | RT    |                        |  |
| 1740                 | Harmony    | L 22 (4Q)     | 400 SL 300 WL   | Jerry Moore, Inc.            | 1        | N. L. Lindeman       | 8-28       | €cr          | --         | --            | --     | 3750        | Out    | CT    |                        |  |
| 1741                 | Lincoln    | L 36 (1Q)     | 386 SL 344 WL   | J. Moore;Lake Shore P. L.    | 1        | J. W. Shaffer        | 7-14       | €cr          | Acid       | --            | 111    | 3250        | Pool   | RT    |                        |  |
| 1742                 | Lincoln    | L 25 (1Q)     | 870 NL 1250 WL  | J. Moore;Lake Shore P. L.    | 2        | C. & B. Cole         | 7-3        | €cr          | Acid       | --            | 65     | 3335        | Pool   | RT    | Replaces P-1558        |  |
| 1743                 | Cardington | S 22          | 845 SL 2200 WL  | NW Robert Tatum              | 1        | C. & G. Vance        | 6-18       | €cr          | --         | --            | --     | 3246        | Pool   | RT    |                        |  |
| 1744                 | Gilead     | S 31          | 660 SL 660 WL   | NW Blair & Morse             | 1        | Morrow Co. Infirmary | 6-8        | €cr          | --         | --            | --     | 3554        | Out    | RT    |                        |  |
| 1745                 | Gilead     | S 26-W        | 1690 SL 500 WL  | SW Ashland                   | 3        | B. H. Adams          | 8-28       | €cr          | --         | --            | --     | 3250        | Pool   | RT    |                        |  |
| 1746                 | Bennington | S 19          | 820 SL 230 WL   | NW Obie Shaw                 | 1        | F. E. Nutt           | 6-21       | €cr          | --         | --            | --     | 3646        | Pool   | RT    |                        |  |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                | Lease | Date Comp.          | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                             |
|----------------------|---------------|---------------|-----------------|----------|-------------------------|-------|---------------------|--------------|------------|---------------|------|-------------|--------|-------|-------------------------------------|
|                      |               |               |                 |          |                         |       |                     |              |            | MCFGPD        | BOPD |             |        |       |                                     |
| MORROW COUNTY (con.) |               |               |                 |          |                         |       |                     |              |            |               |      |             |        |       |                                     |
| 1747                 | Gilead        | S 35-E        | 330 NL 1807 WL  | NW       | Southern Triangle Oil   | 1     | Shaw-Davis          | 6-24         | €cr        | --            | --   | 3263        | Pool   | RT    | Lost hole 631 ft.                   |
| 1748                 | Gilead        | S 1           | 695 NL 385 WL   | NW       | Chief Dlg. Co.          | 1     | Brown & Rawls       | 7-29         | €cr        | Acid          | --   | 200         | Pool   | RT    |                                     |
| 1749                 | Gilead        | S 1           | 675 NL 215 WL   | NW       | Chief Dlg. Co.          | 1     | Lewis Goff          | 8-20         | --         | --            | --   | --          | Pool   | RT    |                                     |
| 1750                 | Westfield     | L 8 (1Q)      | 330 SL 930 WL   |          | Woody Jones             | 1-A   | Iva Bond            | 8-12         | €cr        | --            | --   | 2917        | NWC    | RT    |                                     |
| 1751                 | Harmony       | L 8 (3Q)      | 950 NL 1060 EL  |          | Bale Oil Co.            | 1     | Ola Brokaw          | 7-17         | €cr        | --            | --   | 3530        | Pool   | RT    |                                     |
| 1752                 | Bennington    | L 12 (2Q)     | 35 SL 930 EL    |          | Consumers Prod. & Dev.  | 1     | Agee & Bandy        | 7-28         | €cr        | --            | --   | 3393        | Out    | CT    | Abd. loc.<br>Abd. loc.<br>Abd. loc. |
| 1753                 | Gilead        | S 1           | 1445 NL 945 WL  | NW       | M. L. Vance             | 1     | Robert Shaffer      | 7-4          | €cr        | --            | --   | 3302        | Pool   | RT    |                                     |
| 1754                 | Cardington    | S 22          | 1350 NL 355 EL  | SE       | Gibbs Oil Co.           | 2     | Riverview Parkway   |              |            |               |      |             | Pool   | RT    |                                     |
| 1755                 | Harmony       | L 6 (3Q)      | 1020 NL 1047 EL |          | Cavalier Oil Co.        | 1     | J. R. Barker        |              |            |               |      |             | Pool   | RT    |                                     |
| 1756                 | Harmony       | L 39 (4Q)     | 800 SL 1130 WL  |          | Cavalier Oil Co.        | 1     | D. F. Drake         |              |            |               |      |             | Out    | RT    |                                     |
| 1757                 | Harmony       | S 3           | 280 SL 600 WL   |          | Cavalier Oil Co.        | 1     | O. & C. Owen        | 7-12         | €cr        | --            | --   | 3575        | Pool   | RT    | Replaced by P-2018                  |
| 1758                 | Harmony       | L 3 (3Q)      | 230 SL 230 WL   |          | Cavalier Oil Co.        | 2     | J. & D. Graves      | 7-14         | €cr        | Acid          | --   | 40          | Pool   | RT    |                                     |
| 1759                 | Gilead        | S 27          | 459 SL 430 WL   | NW       | Affeld-Falese           | 7-A   | O. & D. Holt        | 6-20         | €cr        | Acid          | --   | 100         | Pool   | RT    |                                     |
| 1760                 | Canaan        | S 29          | 2343 SL 2010 WL | SW       | Ashland O. & R. Co.     | 2     | Roma Sellars        | 6-17         | €cr        | --            | --   | 3064        | Pool   | RT    |                                     |
| 1761                 | Lincoln       | L 17 (3Q)     | 1000 SL 1320 EL |          | Cavalier Oil Co.        | 1     | A. & B. Boggs       |              |            |               |      |             | Pool   | RT    |                                     |
| 1762                 | Gilead        | S 1           | 860 NL 450 WL   | NW       | Glenn Montgomery        | 1     | L. & M. Lemley      | 10-5         | €cr        | --            | --   | 3347        | Pool   | RT    | Abd. 10-21                          |
| 1763                 | Lincoln       | L 8 (4Q)      | 1495 SL 50 EL   |          | J. L. Brewer            | 1     | R. B. Lhamon        | 7-13         | €cr        | --            | --   | 3267        | Pool   | CT    |                                     |
| 1764                 | Gilead        | S 22-S        | 61 NL 740 WL    | NE       | Bert C. Cheatham        | 1     | Carroll Burns       | 8-11         | €cr        | Acid          | --   | 170         | Pool   | RT    |                                     |
| 1765                 | Peru          | L 9 (1Q)      | 1130 NL 906 WL  |          | Clinton Oil Co.         | 2     | L. & E. Howard      | 7-16         | €cr        | Acid          | --   | 200         | Pool   | CT    |                                     |
| 1766                 | Gilead        | S 23-S        | 230 NL 1185 WL  |          | Don Baines Dlg. Co.     | 1     | Ferguson-Hildebrand | 6-23         | €cr        | Acid          | --   | 50          | Pool   | RT    |                                     |
| 1767                 | Cardington    | S 11          | 230 SL 1750 EL  | SE       | Jerry Moore, Inc.       | 1     | W. & V. Casto       | 7-4          | €cr        | Acid          | --   | 600         | Pool   | RT    | Abd. 10-21                          |
| 1768                 | Cardington    | S 17          | 630 SL 1120 EL  | NE       | J. W. Vandever          | 2     | C. & J. Winchell    | 6-27         | €cr        | Acid          | --   | 30          | Pool   | RT    |                                     |
| 1769                 | Harmony       | S 1           | 1050 NL 1225 WL | NW       | Bauer Bros.             | 2     | T. E. Gordon        | 8-27         | €cr        | --            | --   | 3750        | NWC    | CT    |                                     |
| 1770                 | Gilead        | S 13-S        | 852 SL 130 WL   | NE       | Bill Allen & Assoc.     | 1     | C. D. Goodman       | 7-2          | €cr        | Acid          | --   | 300         | Pool   | RT    |                                     |
| 1771                 | Gilead        | S 35-W        | 330 NL 2467 WL  | NW       | Southern Triangle Oil   | 1     | R. & H. Shaw        | 8-13         | €cr        | --            | --   | 3264        | Pool   | RT    |                                     |
| 1772                 | Gilead        | S 34          | 1050 NL 55 EL   | NE       | Bill Allen & Assoc.     | 1     | Charles Ganson      | 6-27         | €cr        | --            | --   | 3260        | Pool   | CT    | Lost hole 100 ft.                   |
| 1773                 | Peru          | L 9 (1Q)      | 650 NL 1980 EL  |          | Dynamic Mineral Devel.  | 1     | W. & I. Davis       | 6-25         | €cr        | --            | --   | 3200        | Pool   | RT    |                                     |
| 1774                 | Gilead        | L 9 (1Q)      | 330 SL 230 EL   |          | Don Baines Dlg. Co.     | 2     | O. & M. Holt        | 6-28         | €cr        | --            | --   | 3286        | Pool   | RT    |                                     |
| 1775                 | Bennington    | S 22          | 330 NL 430 WL   | NE       | Comanche Oil; M.C. Monk | 1     | James Day           | 11-3         | --         | --            | --   | --          | Pool   | CT    |                                     |
| 1776                 | Westfield     | S 18          | 2049 NL 330 WL  |          | H & C Dlg. Co.          | 1     | Florence Fetter     | 6-30         | €cr        | --            | --   | 3001        | FWC    | RT    |                                     |
| 1777                 | Cardington    | S 8           | 1332 SL 230 EL  | SE       | B. T. A.; J. Moore      | B-1   | H. & M. Betts       | 6-26         | €cr        | --            | --   | 3150        | Pool   | RT    | Wtr. 60 BPD                         |
| 1778                 | Peru          | S 15          | 1548 SL 1023 WL | NW       | Kin-Ark Oil Co.         | 1     | A. & J. Sticklin    | 8-17         | €cr        | ?             | --   | 20          | FWC    | RT    |                                     |
| 1779                 | Westfield     | S 10          | 1500 NL 1800 WL |          | C. E. Miller            | 1     | John Herrod         | 7-25         | €cr        | --            | --   | 2910        | FWC    | CT    |                                     |
| 1780                 | Franklin      | L 2 (4Q)      | 359 SL 305 WL   |          | Frank O. Cox            | 1     | Ralph Burson        | 11-20        | €cr        | --            | --   | 3450        | Out    | CT    |                                     |
| 1781                 | Lincoln       | L 15 (1Q)     | 394 SL 475 EL   |          | Hill Prod. Co.          | 1     | Stella Powers       | 6-27         | €cr        | --            | --   | 3241        | Pool   | CT    |                                     |
| 1782                 | S. Bloomfield | S 3           | 933 NL 1050 EL  | SW       | Falese Oil Co.          | 1     | V. B. Herrod        | 7-30         | €cr        | --            | --   | 3983        | Pool   | RT    | Abd. loc.<br>Discovery              |
| 1783                 | Cardington    | S 10          | 490 NL 890 EL   | NE       | Kin-Ark Oil Co.         | 2     | P. & M. McChesney   | 6-25         | €cr        | Acid          | --   | 360         | Pool   | RT    |                                     |
| 1784                 | Cardington    | S 9           | 170 SL 915 EL   | SW       | Ashland O. & R.         | A-6   | Roma Sellars        | 6-27         | €cr        | Acid          | --   | 72          | Pool   | RT    |                                     |
| 1785                 | Congress      | S 1           | 231 NL 3305 EL  | NW       | Lake Shore Oil Co.      | 1     | J. & P. Melcher     |              |            |               |      |             | FWC    | RT    |                                     |
| 1786                 | Peru          | L 11 (3Q)     | 1100 NL 820 WL  |          | Kin-Ark Oil Co.         | 1     | Edith Jenkins       | 7-10         | €cr        | Acid          | --   | 408         | FWC    | RT    |                                     |
| 1787                 | Canaan        | S 14          | 430 NL 220 WL   | NW       | Ideal Dlg. Co.          | 1     | A. A. Brown         | 6-25         | €cr        | --            | --   | 3170        | FWC    | RT    |                                     |
| 1788                 | Harmony       | L 12 (3Q)     | 1450 SL 500 WL  |          | Lynn O. & G. Co.        | 1     | A. & L. Clark       | 8-2          | €cr        | --            | --   | 3446        | Pool   | CT    |                                     |
| 1789                 | Peru          | L 12 (1Q)     | 1457 SL 230 EL  |          | Lake Shore Pipe Line    | 1     | Kenneth Black       | 7-1          | €cr        | Acid          | --   | 450         | Pool   | RT    |                                     |
| 1790                 | Canaan        | S 2           | 523 NL 1070 EL  |          | P. F. Mattaliano        | 1     | Elmer Cox           | 6-30         | €cr        | --            | --   | 3153        | FWC    | RT    |                                     |
| 1791                 | Gilead        | S 10          | 230 NL 900 WL   | SW       | Bill Allen & Assoc.     | 1     | M. E. Schaffer      | 6-30         | €cr        | --            | --   | 3353        | Pool   | RT    |                                     |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator                   | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |     | Total Depth | Class. | Tools | Remarks                                      |
|----------------------|---------------|---------------|-----------------|----------------------------|----------|--------------------|------------|--------------|------------|---------------|-----|-------------|--------|-------|--|
| MORROW COUNTY (con.) |               |               |                 |                            |          |                    |            |              |            |               |     |             |        |       |  |
| 1792                 | Bennington    | L 3 (1Q)      | 330 NL 1008 EL  | L. B. Jackson Co.          | 2        | R. & N. Grandstaff | 8-1        | €cr          | Acid       | --            | 60  | 3801        | Pool   | CT    | Replaced by P-1958                           |
| 1793                 | Lincoln       | L 27 (1Q)     | 330 SL 599 EL   | Bates & Westfall           | 1        | R. & N. Heimlich   | 7-10       | €cr          | --         | --            | --  | 3186        | Pool   | RT    |  |
| 1794                 | Cardington    | S 17          | 0 SL 1060 EL    | Ashland O. & R. Co.        | 1        | Burgraff-Shaffer   |            |              |            |               |     |             | Pool   | RT    |  |
| 1795                 | Cardington    | S 3           | 360 SL 525 WL   | Ashland O. & R. Co.        | 1        | A. & G. Lee        | 7-2        | €cr          | --         | --            | 240 | 3125        | Pool   | RT    |  |
| 1796                 | Cardington    | S 16          | 1090 NL 2310 WL | Ashland O. & R. Co.        | A-5      | Roma Sellars       | 7-19       | €cr          | Acid       | --            | 264 | 3071        | Pool   | RT    |  |
| 1797                 | Gilead        | S 30          | 344 SL 250 EL   | Howard D. Atha             | 1        | C. & C. Shaw       | 8-7        | €cr          | Acid       | --            | 300 | 3511        | Pool   | RT    | Oil & Wtr. 12 BPD                            |
| 1798                 | Gilead        | S 11          | 890 SL 25 WL    | L. & H. Service            | 1        | P. & S. Shaffer    | 9-21       | €cr          | --         | --            | --  | 3235        | Pool   | CT    |  |
| 1799                 | Cardington    | S 20          | 364 SL 330 WL   | Bill D. Vaught             | 1        | Crum-Poorman       | 7-22       | €cr          | --         | --            | --  | 3109        | Out    | RT    |  |
| 1800                 | Harmony       | L 2 (3Q)      | 802 SL 900 EL   | Cavalier Oil Co.           | 1        | W. & V. McFarland  | 7-3        | €cr          | --         | --            | --  | 3530        | Pool   | RT    |  |
| 1801                 | Lincoln       | L 33 (2Q)     | 154 SL 64 WL    | General Pet. Co.           | 1        | C. & M. Pearl      | 7-26       | €cr          | Acid       | --            | --  | 3256        | Pool   | CT    |  |
| 1802                 | Peru          | L 13 (1Q)     | 400 NL 400 EL   | Kin-Ark Oil Co.            | 3        | Lendon Howard      | 7-4        | €cr          | --         | --            | --  | 3232        | Pool   | RT    | Wtr. 288 BPD<br>Abd. loc.                    |
| 1803                 | Cardington    | S 10          | 335 NL 345 EL   | Ashland O. & R. Co.        | 1        | D. & M. Feld       | 7-21       | €cr          | --         | --            | --  | 3200        | Pool   | RT    |  |
| 1804                 | Canaan        | S 34          | 1400 NL 1450 EL | Ashland O. & R. Co.        | 1        | E. T. Bush         | 7-11       | €cr          | Acid       | --            | 60  | 3175        | Pool   | RT    |  |
| 1805                 | Gilead        | S 2-W         | 1358 SL 430 EL  | Ashland O. & R. Co.        | 1        | A. J. Olds         |            |              |            |               |     |             | Pool   | RT    |  |
| 1806                 | S. Bloomfield | S 1           | 230 SL 430 EL   | C. E. Skiles, Inc.         | 1        | Dwight Slack       | 7-17       | €cr          | --         | --            | --  | 4038        | NWC    | RT    |  |
| 1807                 | Peru          | L 20 (3Q)     | 822 SL 1369 WL  | Jerry L. Decker            | 1        | Jay Hickson        | 7-30       | €cr          | --         | --            | --  | 3208        | FWC    | CT    | Abd. loc.<br>Abd. loc.<br>Replaced by P-1829 |
| 1808                 | Bennington    | S 21          | 1135 SL 516 WL  | Prospectors, Inc.          | 1        | E. C. Bennett      | 7-6        | €cr          | --         | --            | --  | 3700        | Pool   | RT    |  |
| 1809                 | Lincoln       | L 26 (1Q)     | 230 NL 680 WL   | Jerry Moore, Inc.          | 3        | C. & F. Walters    |            |              |            |               |     |             | Pool   | RT    |  |
| 1810                 | Lincoln       | L 26 (1Q)     | 560 SL 1200 WL  | Jerry Moore, Inc.          | 4        | C. & F. Walters    |            |              |            |               |     |             | Pool   | RT    |  |
| 1811                 | Chester       | L 3-W         | 2110 NL 1135 WL | Murphy O. & G. Co.         | 1        | Warren Squires     |            |              |            |               |     |             | FWC    | CT    |  |
| 1812                 | Westfield     | L 26 (1Q)     | 630 SL 297 WL   | E & W Gas & Oil Co.        | 2        | T. & H. Freeman    | 8-4        | €cr          | --         | --            | --  | 3175        | Pool   | CT    | Active                                       |
| 1813                 | Gilead        | S 23-W        | 1154 SL 700 EL  | Ashland O. & R. Co.        | 1        | W. Long            | 7-14       | €cr          | Acid       | --            | 600 | 3230        | Pool   | RT    |  |
| 1814                 | Gilead        | S 2-E         | 73 NL 655 WL    | Comanche Oil Co.           | 4-C      | Gale Westbrook     | 7-5        | €cr          | Acid       | --            | 40  | 3238        | Pool   | RT    |  |
| 1815                 | Chester       | L 1 (2Q)      | 814 SL 688 WL   | Barnet Oil Co.             | 1        | O. & M. Gilt       | 8-8        | €cr          | --         | --            | --  | 3824        | Out    | CT    |  |
| 1816                 | Westfield     | L 22 (1Q)     | 1541 SL 1536 EL | Astro Pet. & Invest.       | 1        | A. G. Williams     | 7-31       | €cr          | --         | --            | --  | 2902        | FWC    | CT    |  |
| 1817                 | Lincoln       | L 12 (2Q)     | 268 NL 230 EL   | Frank O. Cox               | 2        | M. & M. Barry      | 9-24       | €cr          | Acid       | --            | 126 | 3125        | Pool   | CT    | Abd. loc.<br>Replaces P-1811                 |
| 1818                 | Cardington    | S 14          | 2182 NL 230 EL  | B. W. Wiseman, Jr.         | 1        | E. & D. Casto      | 8-9        | €cr          | --         | --            | --  | 3200        | Pool   | CT    |  |
| 1819                 | Peru          | L 9 (1Q)      | 690 NL 230 EL   | Dynamic Mineral Devel.     | 2        | W. & I. Davis      | 7-6        | €cr          | --         | --            | --  | 3252        | Pool   | RT    |  |
| 1820                 | Cardington    | S 19          | 1367 NL 1093 EL | Oxford Oil Co.             | 1        | W. A. James        | 8-5        | €cr          | --         | --            | --  | 2998        | NWC    | CT    |  |
| 1821                 | Gilead        | L 9 (1Q)      | 1006 SL 322 EL  | Don Baines Dlg. Co.        | 1        | E. J. Henry        | 7-9        | €cr          | --         | --            | --  | 3290        | Pool   | RT    |  |
| 1822                 | Peru          | L 12 (1Q)     | 5 SL 1184 EL    | Lake Shore Pipe Line       | 1        | S. & M. Bible      | 7-17       | €cr          | Acid       | --            | 100 | 3347        | Pool   | RT    | Active                                       |
| 1823                 | Cardington    | S 23          | 1015 NL 16 EL   | Pilgrim O. & G. Co.        | 2        | H. & N. Smith      | 7-4        | €cr          | --         | --            | --  | 3166        | Pool   | RT    |  |
| 1824                 | N. Bloomfield | S 8           | 250 NL 250 EL   | Mark Wagner                | 1        | F. J. Gledhill     |            |              |            |               |     |             | FWC    | RT    |  |
| 1825                 | Chester       | L 34 (3Q)     | 620 SL 654 WL   | Bell & Gault Dlg.          | 1        | R. & E. Hawk       | 8-21       | €cr          | --         | --            | --  | 3736        | Out    | CT    |  |
| 1826                 | Harmony       | L 4 (3Q)      | 670 SL 330 WL   | Cavalier Oil Co.           | 1        | W. D. Chilcote     | 7-23       | €cr          | --         | --            | --  | 3487        | Out    | RT    |  |
| 1827                 | Harmony       | L 1 (3Q)      | 230 SL 1480 EL  | Buckeye O. & G. Co.        | 1        | Ralph Van Auken    | 7-27       | €cr          | --         | --            | --  | 3517        | Pool   | RT    | Abd. loc.<br>Replaces P-1811                 |
| 1828                 | Harmony       | L 8 (2Q)      | 230 NL 800 WL   | Cavalier Oil Co.           | 1        | H. L. Brown        |            |              |            |               |     |             | Pool   | RT    |  |
| 1829                 | Chester       | L 3-W (1Q)    | 2110 NL 1135 WL | Obie Shaw                  | 1        | Warren Squires     | 12-2       | €cr          | --         | --            | --  | 3806        | FWC    | CT    |  |
| 1830                 | S. Bloomfield | S 23          | 230 NL 387 EL   | Allen A. Borton            | 1        | J. & P. Heier      | 7-29       | €cr          | --         | --            | --  | 4070        | FWC    | RT    |  |
| 1831                 | Canaan        | S 20          | 2620 SL 440 EL  | Ashland O. & R. Co.        | 1        | Ault-Zentler       | 8-22       | €cr          | --         | --            | --  | 3051        | Out    | RT    |  |
| 1832                 | Gilead        | S 27          | 2060 SL 557 WL  | Royal O. & G. Co.          | 3        | R. & H. Long       | 8-1        | €cr          | Acid       | --            | 100 | 3147        | Pool   | CT    | Replaces P-1090<br>Canceled                  |
| 1833                 | Gilead        | S 14          | 240 SL 240 WL   | Pilgrim O. & G. Co.        | 1        | Williams-Furbay    | 6-24       | €cr          | --         | --            | --  | 3263        | Pool   | RT    |  |
| 1834                 | Canaan        | S 29          | 1030 NL 950 EL  | Ashland O. & R. Co.        | 1        | S. Payne           | 7-13       | €cr          | Acid       | --            | 480 | 3076        | Pool   | RT    |  |
| 1835                 | Congress      | S 22          | 350 SL 530 WL   | Petroleum Promotions, Inc. | 1        | E. N. Blanton      |            |              |            |               |     |             | FWC    | CT    |  |
| 1836                 | Gilead        | S 1           | 1289 NL 430 EL  | Bill Allen & Assoc.        | 1        | R. McKirgan        | 7-13       | €cr          | --         | --            | --  | 3560        | Pool   | RT    |  |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                 | Lease | Date Comp.            | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks              |
|----------------------|------------|---------------|-----------------|----------|--------------------------|-------|-----------------------|--------------|------------|---------------|------|-------------|--------|-------|----------------------|
|                      |            |               |                 |          |                          |       |                       |              |            | MCFGPD        | BOPD |             |        |       |                      |
| MORROW COUNTY (con.) |            |               |                 |          |                          |       |                       |              |            |               |      |             |        |       |                      |
| 1837                 | Bennington | S 20          | 945 NL 300 WL   | SE       | Bill Allen & Assoc.      | 1     | P. & N. Mattox        |              |            |               |      |             | Pool   | CT    | Abd. loc.            |
| 1838                 | Franklin   | S 5-E         | 230 SL 230 EL   | SW       | Bill Allen & Assoc.      | 1     | M. G. Levering        | 7-18         | €cr        | --            | --   | 4304        | FWC    | RT    |                      |
| 1839                 | Peru       | L 21 (4Q)     | 484 NL 2091 WL  |          | Reco O. & G., Inc.       | 1     | Alvin Van Sickle      | 7-16         | €cr        | --            | --   | 3400        | Out    | RT    |                      |
| 1840                 | Bennington | L 2 (1Q)      | 250 NL 700 WL   |          | Keener Oil Co.           | 1     | M. & L. Martin        | 8-31         | €cr        | Acid          | --   | 168         | Pool   | CT    |                      |
| 1841                 | Cardington | S 10          | 1090 SL 1088 EL | NW       | B. T. A.; Jerry Moore    | 1     | P. & M. McChesney     | 7-10         | €cr        | --            | --   | 3200        | Pool   | RT    |                      |
| 1842                 | Bennington | S 21          | 990 SL 330 WL   | SE       | Don Baines Dlg. Co.      | 1     | A. & S. Moody         |              |            |               |      |             | Pool   | RT    | Abd. loc.            |
| 1843                 | Gilead     | S 12          | 293 NL 230 WL   | NE       | B. T. A.; Jerry Moore    | 1     | H. Kimmey             | 8-17         | €cr        | --            | --   | 3427        | Out    | RT    |                      |
| 1844                 | Lincoln    | S 17          | 1055 SL 330 WL  | SW       | Donald E. Davis          | 1     | E. & S. Moodespaugh   |              |            |               |      |             | Out    | RT    | Active               |
| 1845                 | Gilead     | S 35-E        | 330 NL 595 WL   | NW       | Southern Triangle Oil    | 1     | G. Richardson         | 7-12         | €cr        | --            | --   | 3237        | Out    | RT    |                      |
| 1846                 | Congress   | S 33          | 230 NL 1176 WL  | SW       | Bernard Burrows          | 1     | Kerr-Potter           | 7-21         | €cr        | --            | --   | 3698        | FWC    | RT    |                      |
| 1847                 | Gilead     | S 22-S        | 105 NL 430 WL   | NE       | Robert Tatum             | 1-A   | J. & M. Mosher        | 7-31         | €cr        | --            | --   | 3305        | Pool   | RT    |                      |
| 1848                 | Cardington | S 22          | 500 SL 228 EL   | SE       | Smith & Wenner           | 4     | C. Maxwell            | 12-6         | €cr        | --            | --   | 3103        | Pool   | RT    |                      |
| 1849                 | Lincoln    | L 25 (3Q)     | 440 NL 74 WL    |          | Glenwood O. & G. Corp.   | 1     | A. Moodespaugh        |              |            |               |      |             | Pool   | RT    | Canceled             |
| 1850                 | Gilead     | S 14-S        | 1575 SL 234 WL  | SE       | Pearce;Hydrocarbons,Inc. | 5     | C. L. Wood            | 7-15         | €cr        | Acid          | --   | 456         | Pool   | RT    |                      |
| 1851                 | Gilead     | S 23-NW       | 950 NL 1023 EL  | NW       | Ashland O. & R. Co.      | 1     | F. & D. Baird         | 8-9          | €cr        | --            | --   | 3241        | Pool   | RT    |                      |
| 1852                 | Lincoln    | L 12 (4Q)     | 750 SL 1610 WL  |          | Ashland O. & R. Co.      | 1     | Blinn-Criswell        | 7-19         | €cr        | --            | --   | 3350        | Pool   | RT    |                      |
| 1853                 | Lincoln    | L 1 (4Q)      | 330 SL 1062 EL  |          | Clinton Oil Co.          | 1     | C. E. Staiger         | 8-5          | €cr        | --            | --   | 3265        | NWC    | CT    |                      |
| 1854                 | Canaan     | S 17          | 293 NL 471 WL   | SW       | M. L. Vance              | 1     | V. & D. Gist          | 7-27         | €cr        | Acid          | --   | 300         | 3035   | Out   | PB to Omc. Discovery |
| 1855                 | Cardington | L 8 (2Q)      | 339 SL 682 EL   |          | Holman & Montgomery      | 1     | Doyle Cook            |              |            |               |      |             | Pool   | CT    | Abd. loc.            |
| 1856                 | Cardington | S 10          | 230 SL 900 EL   | NE       | Bill Allen & Assoc.      | 1     | P. & M. McChesney     | 7-24         | €cr        | --            | --   | 3216        | Pool   | RT    |                      |
| 1857                 | Westfield  | S 11          | 432 SL 448 EL   | SE       | W. E. Shrider            | 1     | K. & B. Renz          | 8-19         | €cr        | --            | --   | 3115        | Out    | CT    |                      |
| 1858                 | Gilead     | S 15-S        | 1175 SL 715 WL  | SE       | Jerry Moore, Inc.        | 3     | C. & D. Walton        | 7-22         | €cr        | Acid          | --   | 71          | 3318   | Pool  | RT                   |
| 1859                 | Gilead     | S 23          | 296 NL 1100 WL  | NE       | Calvert Eastern Dlg.     | 1     | C. L. Howard          | 7-24         | €cr        | --            | --   | 3344        | Pool   | RT    |                      |
| 1860                 | Perry      | S 31          | 641 SL 250 EL   | NE       | R. Hamblin & T. Burrey   | 1     | Henry Gilbert         | 10-1         | €cr        | Acid          | --   | 20          | 3987   | FWC   | Discovery            |
| 1861                 | Franklin   | S 17          | 990 NL 990 WL   | SE       | Barron Oil Co.           | 1     | Roy Wertz             | 7-23         | €cr        | --            | --   | 3586        | FWC    | RT    |                      |
| 1862                 | Peru       | L 9 (1Q)      | 570 NL 950 WL   |          | Kin-Ark Oil Co.          | 2     | G. & E. Wheeler       | 7-15         | €cr        | Acid          | --   | 288         | 3200   | Pool  | RT                   |
| 1863                 | Franklin   | S 8-E         | 790 NL 230 WL   | NE       | Michael T. Cowan         | 2     | O. & H. Frederick     | 7-30         | €cr        | --            | --   | --          | 4085   | Pool  | RT                   |
| 1864                 | Gilead     | S 26-W        | 775 SL 1267 EL  | SE       | Ashland O. & R. Co.      | A-1   | Eva Potts             | 7-29         | €cr        | Acid          | --   | 360         | 3220   | Pool  | RT                   |
| 1865                 | Canaan     | S 29          | 1020 NL 660 WL  | NW       | Ashland O. & R. Co.      | 1     | F. Martin             | 7-30         | €cr        | --            | --   | --          | 3062   | Pool  | RT                   |
| 1866                 | Gilead     | S 27          | 465 SL 913 EL   | NW       | Affeld-Falese Oil Co.    | 3-B   | O. & D. Holt          | 7-22         | €cr        | Acid          | --   | 100         | 3150   | Pool  | RT                   |
| 1867                 | Peru       | L 12 (4Q)     | 230 NL 1150 EL  |          | Reco O. & G., Inc.       | 1     | Carl Bonham           | 7-20         | €cr        | --            | --   | --          | 3273   | Out   | RT                   |
| 1868                 | Lincoln    | L 30 (4Q)     | 430 SL 430 WL   |          | Bill Allen & Assoc.      | 1     | J. & M. Walter        | 8-25         | €cr        | Acid          | --   | 600         | 3265   | NWC   | Discovery            |
| 1869                 | Peru       | L 13          | 399 SL 1420 WL  |          | Lake Shore Pipe Line     | 1     | G. & K. Graham        | 7-25         | €cr        | Acid          | --   | 500         | 3200   | Pool  | RT                   |
| 1870                 | Troy       | S 17          | 330 SL 330 EL   | NE       | Chief Dlg. Co.           | 1     | W. & D. Sanderlin     |              |            |               |      |             | NWC    | RT    | Replaced by P-2082   |
| 1871                 | Cardington | S 5           | 1650 SL 330 WL  | SW       | Natol Pet. Corp.         | 1     | Wilson Burgraff       | 8-5          | €cr        | --            | --   | --          | 3072   | Pool  |                      |
| 1872                 | Gilead     | S 14-S        | 230 NL 230 WL   | SE       | Pilgrim O. & G. Co.      | 1     | Marsh-Chilcote-Foster | 8-27         | €cr        | --            | --   | --          | 3340   | Pool  | CT                   |
| 1873                 | Gilead     | S 12          | 680 NL 550 WL   | NW       | Black Fork O. & Mng. Co. | 1     | O. W. McClenathan     | 8-3          | €cr        | --            | --   | --          | 3350   | Pool  | RT                   |
| 1874                 | Harmony    | L 2 (4Q)      | 285 SL 1425 WL  | NE       | Well Supervision, Inc.   | 1     | J. & M. Jones         | 8-10         | €cr        | --            | --   | --          | 3750   | FWC   | CT                   |
| 1875                 | Bennington | L 30 (1Q)     | 1160 NL 1145 EL |          | Howard D. Atha           | 2     | W. & K. Fishburn      | 7-31         | €cr        | Acid          | --   | 100         | 3527   | Pool  | RT                   |
| 1876                 | Harmony    | S 8           | 230 NL 1445 WL  |          | Cavalier Oil Co.         | 1     | R. & J. Michael       |              |            |               |      |             | Pool   | RT    | Abd. loc.            |
| 1877                 | Harmony    | L 2 (3Q)      | 271 NL 230 WL   |          | Cavalier Oil Co.         | 2     | E. & E. Tipton        | 7-25         | €cr        | --            | --   | --          | 3525   | Pool  | RT                   |
| 1878                 | Gilead     | S 26-W        | 1557 NL 1990 EL | NE       | Ashland O. & R. Co.      | 1     | Kelly-Long            | 8-4          | €cr        | Acid          | --   | 60          | 3240   | Pool  | Wtr. 60 BPD          |
| 1879                 | Gilead     | S 14          | 430 NL 890 EL   | NE       | Dynamic Minerals, Inc.   | 2     | G. & E. Jackson       | 9-21         | €cr        | Acid          | --   | 503         | 3245   | Pool  | CT                   |
| 1880                 | Gilead     | S 14          | 890 NL 430 EL   | NE       | Dynamic Minerals, Inc.   | 3     | G. & E. Jackson       | 8-12         | €cr        | Acid          | --   | 340         | 3349   | Pool  | CT                   |
| 1881                 | Peru       | L 2 (1Q)      | 330 NL 250 EL   |          | Kin-Ark Oil Co.          | 1     | S. B. Green           | 7-21         | €cr        | --            | --   | --          | 3255   | Pool  | RT                   |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.                | Lease | Date Comp.          | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                         |
|----------------------|------------|---------------|-----------------|----------|-------------------------|-------|---------------------|--------------|------------|---------------|------|-------------|--------|-------|---------------------------------|
|                      |            |               |                 |          |                         |       |                     |              |            | MCFGPD        | BOPD |             |        |       |                                 |
| MORROW COUNTY (con.) |            |               |                 |          |                         |       |                     |              |            |               |      |             |        |       |                                 |
| 1882                 | Cardington | S 10          | 230 SL 330 EL   | SE       | Ashland O. & R. Co.     | 1     | E. & D. Gabriel     | 7-27         | €cr        | --            | --   | 3162        | Pool   | RT    |                                 |
| 1883                 | Canaan     | S 20          | 760 SL 16 EL    | SW       | Ashland O. & R. Co.     | 1     | Gillson-Murphy      | 8-12         | €cr        | Acid          | --   | 240         | Out    | RT    |                                 |
| 1884                 | Gilead     | S 13          | 596 SL 100 EL   | NW       | Perry Fulk, Sr.         | 1     | I. & I. Lawyer      | 7-26         | €cr        | Acid          | --   | 150         | Pool   | RT    |                                 |
| 1885                 | Gilead     | S 25          | 262 SL 230 EL   | NE       | Bernard Burrows         | 1     | Williams-Amick      | 7-31         | €cr        | --            | --   | 3525        | Pool   | RT    |                                 |
| 1886                 | Bennington | L 14 (2Q)     | 413 NL 1390 WL  |          | Ponderosa Oil Co.       | 1     | R. & E. Sample      | 9-2          | €cr        | --            | --   | 3371        | Out    | CT    |                                 |
| 1887                 | Peru       | L 4 (3Q)      | 30 SL 230 EL    |          | Great Lakes Dlg. Co.    | 1     | T. & L. White       | 8-2          | €cr        | --            | --   | 3033        | Out    | RT    | Abd. loc.<br>Replaced by P-2078 |
| 1888                 | Cardington | L 18          | 744 SL 1107 EL  |          | Ashland O. & R. Co.     | 1     | H. & M. Willey      |              |            |               |      |             | Pool   | RT    |                                 |
| 1889                 | Gilead     | S 2-W         | 910 SL 230 WL   | SW       | Jerry Moore, Inc.       | 1     | Harvey Smith        |              |            |               |      |             | Pool   | RT    |                                 |
| 1890                 | Cardington | S 3           | 377 NL 1078 EL  | SW       | Jerry Moore, Inc.       | 2     | A. & K. Smith       | 8-21         | €cr        | Acid          | --   | 360         | Pool   | RT    |                                 |
| 1891                 | Franklin   | L 20 (4Q)     | 261 SL 452 WL   |          | Bill Allen & Assoc.     | 1     | D. & E. Shinnaberry | 8-21         | €cr        | Acid          | --   | 104         | Out    | RT    |                                 |
| 1892                 | Franklin   | L 26          | 230 NL 757 EL   |          | Morrow-Ashland-Richland | 1     | Chips-Perkins-Shade | 12-21        | €cr        | Acid          | --   | 10          | Out    | CT    |                                 |
| 1893                 | Cardington | S 16          | 230 NL 230 WL   | SW       | H. D. Collins           | 1     | Alma Hartsook       | 7-27         | €cr        | --            | --   | 3090        | Pool   | CT    |                                 |
| 1894                 | Cardington | S 3           | 973 SL 622 WL   | SE       | Ashland O. & R. Co.     | 2     | A. G. Lee           | 8-14         | €cr        | --            | --   | 3142        | Pool   | RT    |                                 |
| 1895                 | Lincoln    | S 17          | 907 SL 365 EL   | SW       | Kin-Ark Oil Co.         | 1     | C. & I. Jones       | 8-13         | €cr        | Acid          | --   | 117         | Out    | RT    |                                 |
| 1896                 | Gilead     | S 14          | 119 SL 425 WL   | NE       | Dynamic Minerals Devel. | 4     | G. & E. Jackson     | 8-9          | €cr        | --            | --   | 3360        | Pool   | RT    |                                 |
| 1897                 | Cardington | S 14          | 1120 SL 294 EL  | SE       | Perry Fulk, Sr.         | 2-B   | Carrie Philbrook    | 7-30         | €cr        | --            | --   | 3142        | Pool   | RT    | Lost hole 400 ft.               |
| 1898                 | Westfield  | L 10          | 468 NL 14 EL    |          | Pannel Crude Oil Co.    | 1     | Elizabeth Gibson    | 12-?         | --         | --            | --   | --          | FWC    | CT    |                                 |
| 1899                 | Bennington | S 18          | 1425 NL 310 EL  | SE       | Kin-Ark Oil Co.         | 2     | W. W. Darst         | 8-4          | €cr        | --            | --   | 3710        | Pool   | RT    |                                 |
| 1900                 | Cardington | S 3           | 271 SL 1055 WL  | NW       | Kin-Ark Oil Co.         | 3     | J. & R. Wolfinger   | 8-21         | €cr        | Acid          | --   | 250         | Pool   | RT    |                                 |
| 1901                 | Peru       | L 12 (1Q)     | 602 SL 230 EL   |          | Lake Shore Pipe Line    | 2     | E. & L. Tretow      | 8-17         | €cr        | Acid          | --   | 500         | Pool   | RT    |                                 |
| 1902                 | Canaan     | S 21          | 984 NL 332 WL   | NW       | Ashland O. & R. Co.     | 1     | W. & D. Ault        |              |            |               |      |             | Out    | RT    | Abd. loc.                       |
| 1903                 | Gilead     | S 23          | 230 NL 640 WL   | NW       | Mammoth Prod. Corp.     | 3     | W. & I. Carr        | 7-26         | €cr        | --            | --   | 3255        | Pool   | RT    |                                 |
| 1904                 | Lincoln    | S 18 (3Q)     | 557 SL 1575 EL  | NW       | Kin-Ark Oil Co.         | 1     | H. H. Coomer        | 7-28         | €cr        | Acid          | --   | 456         | Out    | RT    | Discovery<br>Active             |
| 1905                 | Peru       | L 14 (3Q)     | 821 SL 782 WL   |          | W. E. Shrider           | 1     | L. & E. Bunker      | 9-2          | €cr        | Acid          | --   | 330         | FWC    | CT    |                                 |
| 1906                 | Cardington | L 8           | 408 SL 545 EL   |          | Sun Oil Co., Inc.       | 1     | J. & D. Kirk        |              |            |               |      |             | Pool   | CT    |                                 |
| 1907                 | Canaan     | S 3           | 765 NL 826 NL   | NE       | Ashland O. & R. Co.     | 1     | B. G. Baker         |              |            |               |      |             | FWC    | RT    | Canceled                        |
| 1908                 | Bennington | L 12 (2Q)     | 495 SL 230 EL   |          | D. Fowler; S. Pauley    | 1     | J. & E. Mathias     | 9-25         | €cr        | --            | --   | 3407        | Out    | CT    |                                 |
| 1909                 | Harmony    | S 9           | 40 SL 435 WL    | SE       | R. O. Leighton          | 1     | W. & D. Frey        | 9-16         | €cr        | --            | --   | 3671        | Out    | CT    | Active<br>Abd. loc.             |
| 1910                 | Lincoln    | L 11 (4Q)     | 895 NL 1090 WL  |          | W. H. Patten Dlg. Co.   | 2     | C. & M. Reppart     |              |            |               |      |             | Pool   | CT    |                                 |
| 1911                 | Harmony    | S 8           | 776 NL 230 WL   |          | Cavalier Oil Co.        | 1     | L. & T. Ludwig      |              |            |               |      |             | Pool   | RT    |                                 |
| 1912                 | Harmony    | S 8           | 230 SL 700 WL   | NE       | Cavalier Oil Co.        | 1     | Margaret Smith      | 8-5          | €cr        | --            | --   | 3576        | Pool   | CT    | Replaced by P-1946              |
| 1913                 | Peru       | L 13 (1Q)     | 145 SL 1258 EL  |          | M. W. Ahlmeyer          | 1     | A. M. Adams         |              |            |               |      |             | Pool   | RT    |                                 |
| 1914                 | Lincoln    | S 24          | 1593 SL 795 EL  | SE       | Kin-Ark Oil Co.         | 1     | F. & J. Cook        | 8-5          | €cr        | Acid          | --   | 130         | Pool   | RT    |                                 |
| 1915                 | Congress   | S 11          | 1400 NL 360 WL  | NW       | E. R. Thomas            | 1     | G. & A. Ruhl        | 9-28         | €cr        | --            | --   | 3964        | FWC    | CT    |                                 |
| 1916                 | Cardington | S 14          | 725 NL 360 WL   | SW       | Carter Devel. Co.       | 1     | L. & L. Levering    | 8-14         | €cr        | --            | --   | 3157        | Pool   | RT    |                                 |
| 1917                 | Gilead     | S 15          | 505 SL 230 EL   | SE       | Pilgrim O. & G. Co.     | 2     | J. & E. Davis       | 8-1          | €cr        | --            | --   | 3245        | Pool   | RT    |                                 |
| 1918                 | Gilead     | S 13          | 760 NL 248 WL   | NW       | Southern Triangle Oil   | 3     | S. J. Broiller      | 8-5          | €cr        | --            | --   | 3310        | Pool   | RT    |                                 |
| 1919                 | Cardington | L 4-E (2Q)    | 230 NL 230 EL   |          | Ralph C. Halbert        | 2     | Grace Howard        | 8-13         | €cr        | --            | --   | 3141        | Pool   | RT    |                                 |
| 1920                 | Harmony    | L-1 (3Q)      | 750 NL 715 WL   |          | Buckeye O. & G. Co.     | 1     | Dunham Bros.        | 8-29         | €cr        | --            | --   | 3475        | Pool   | RT    |                                 |
| 1921                 | Lincoln    | L 2 (2Q)      | 645 NL 1055 EL  |          | Kenneth R. Ingle        | 3     | R. & C. Thompson    | 8-5          | €cr        | --            | --   | 3193        | Pool   | CT    |                                 |
| 1922                 | Bennington | L 9 (2Q)      | 789 NL 235 WL   |          | Clinton Oil Co.         | 1     | M. & C. Mason       | 8-10         | €cr        | --            | --   | 3398        | FWC    | RT    | Abd. loc.<br>Abd. loc.          |
| 1923                 | Canaan     | S 22          | 230 SL 172 EL   | SE       | Ideal Dlg. Co.          | 1     | L. & M. Harvey      |              |            |               |      |             | Out    | RT    |                                 |
| 1924                 | Lincoln    | L 33 (2Q)     | 113 SL 232 WL   |          | M & M Prod. Co.         | 1     | Ila Ruhl            |              |            |               |      |             | Pool   | CT    |                                 |
| 1925                 | Canaan     | S 18          | 330 NL 330 WL   | SW       | M. L. Vance             | 1     | W. & E. Cochran     | 8-14         | €cr        | Acid          | --   | 80          | Out    | RT    |                                 |
| 1926                 | Peru       | L 15 (3Q)     | 1101 SL 2255 EL |          | Davis Dlg. Co.          | 2     | D. & M. Silveous    | 9-10         | €cr        | Acid          | --   | 100         | Out    | CT    |                                 |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator | Well No.              | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|------------|---------------|-----------------|----------|-----------------------|------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |            |               |                 |          |                       |                        |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |            |               |                 |          |                       |                        |            |              |            |               |      |             |        |       |                    |
| 1927                 | Gilead     | S 2-E         | 450 NL 248 EL   | SE       | Blue-Gray Dlg. Co.    | 1 W. & C. Fisher       | 8-20       | €cr          | --         | --            | --   | 3218        | Pool   | RT    |                    |
| 1928                 | Lincoln    | L 16 (4Q)     | 778 NL 1280 WL  |          | Calvert Eastern Dlg.  | 1 E. C. Gregory        | 8-12       | €cr          | --         | --            | --   | 3219        | Out    | RT    |                    |
| 1929                 | Harmony    | L 3 (2Q)      | 120 SL 230 EL   |          | Collier Oil Co.       | 1 R. & M. Wiseman      | 10-9       | €cr          | --         | --            | --   | 3584        | Pool   | CT    |                    |
| 1930                 | Gilead     | S 14          | 631 NL 230 EL   | SW       | Delta Pet. Co.        | 1 Todd-Heacock-Mason   | 10-7       | €cr          | --         | --            | --   | 3310        | Pool   | CT    |                    |
| 1931                 | Lincoln    | L 33 (2Q)     | 557 SL 584 WL   |          | Lynn O. & G. Co.      | 1 Wolford-Burns        | 9-18       | €cr          | --         | --            | --   | 3304        | Pool   | CT    |                    |
| 1932                 | Lincoln    | L 16 (3Q)     | 1325 NL 230 EL  |          | Tri-State Prod. Co.   | 2 W. & O. Burns        | 9-9        | €cr          | --         | --            | --   | 3448        | Pool   | CT    |                    |
| 1933                 | Gilead     | S 2-E         | 21 SL 1135 WL   | NW       | Louis M. Lottie       | 2 Keernan-Edgell       | 9-11       | €cr          | --         | --            | --   | 3242        | Pool   | CT    |                    |
| 1934                 | Gilead     | S 30          | 855 NL 675 EL   | SW       | Earl V. Shehorn       | 1 G. & I. Fissell      | 12-12      | €cr          | --         | --            | --   | 3648        | Pool   | RT    |                    |
| 1935                 | Cardington | S 18          | 1110 SL 11 WL   | SW       | Comanche Oil Co.      | 1-C E. & V. Bush       | 8-23       | €det         | --         | --            | --   | 3866        | FWC    | RT    |                    |
| 1936                 | Perry      | S 18          | 368 NL 526 WL   | NW       | Astro Pet. & Invest.  | 1 Walter Margavich     | 12-19      | €cr          | --         | --            | --   | 4078        | FWC    | CT    |                    |
| 1937                 | Canaan     | S 17          | 230 SL 321 WL   | NW       | Ashland O. & R. Co.   | 1 William Coulter      | 8-8        | €cr          | Acid       | --            | 25   | 3061        | Out    | RT    | Some wtr.          |
| 1938                 | Canaan     | S 18          | 900 NL 230 EL   | SE       | Ashland O. & R. Co.   | 2 H. & M. Hill         | 8-10       | €cr          | Acid       | --            | --   | 3021        | Out    | RT    | SWDW 12-23         |
| 1939                 | Peru       | L 26 (3Q)     | 231 SL 2293 EL  |          | W. E. Shrider         | 1 Charles Flemming     |            |              |            |               |      |             | Out    | CT    | Active             |
| 1940                 | Bennington | S 22          | 905 SL 250 WL   | NE       | Ferguson Oil Co.      | 1 W. & J. Day          | 9-18       | €cr          | --         | --            | --   | 3725        | Pool   | CT    |                    |
| 1941                 | Gilead     | S 14          | 1392 SL 753 WL  | SW       | Pilgrim O. & G. Co.   | 2 W. R. Furbay         | 8-9        | €cr          | --         | --            | --   | 3270        | Pool   | RT    |                    |
| 1942                 | Canaan     | S 17          | 834 NL 330 WL   | SW       | Ashland O. & R. Co.   | 1 E. H. Dean           |            |              |            |               |      |             | Pool   | RT    | Replaced by P-2072 |
| 1943                 | Canaan     | S 18          | 330 NL 230 EL   | SE       | Ashland O. & R. Co.   | 1 H. & M. Hill         | 8-27       | €cr          | Acid       | --            | 600  | 3015        | Pool   | RT    |                    |
| 1944                 | Canaan     | S 18          | 230 SL 230 EL   | NE       | Ashland O. & R. Co.   | 1 H. & E. McKinstry    | 9-3        | €cr          | --         | --            | --   | 3015        | Pool   | RT    |                    |
| 1945                 | Canaan     | S 17          | 230 NL 1109 WL  | SW       | Ashland O. & R. Co.   | 2 W. & D. Ault         |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 1946                 | Peru       | L 13 (1Q)     | 174 SL 1153 EL  |          | Allen A. Borton       | 1 Anna Adams           | 8-12       | €cr          | --         | --            | --   | 3165        | Pool   | RT    | Replaces P-1913    |
| 1947                 | Gilead     | S 14          | 782 SL 1587 EL  | NE       | Hobson Oil Co.        | 2 E. & E. Jackson      | 8-14       | €cr          | Acid       | --            | 100  | 3339        | Pool   | RT    |                    |
| 1948                 | Lincoln    | S 17          | 890 NL 313 WL   | NW       | Howard D. Atha        | 1 Lowell Murphy        | 8-17       | €cr          | --         | --            | --   | 3064        | Pool   | RT    |                    |
| 1949                 | Washington | S 1           | 330 SL 990 EL   | NE       | Affeld Oil Co.        | 1 Aaron Smith          | 8-28       | €cr          | Acid       | --            | --   | 3500        | FWC    | RT    |                    |
| 1950                 | Harmony    | L 3 (3Q)      | 900 SL 972 EL   |          | Perry Fulk, Sr.       | 1 E. & E. Tipton       | 8-31       | €cr          | Acid       | --            | 200  | 3485        | Pool   | RT    |                    |
| 1951                 | Cardington | S 10          | 249 NL 713 WL   | NW       | Bill Allen & Assoc.   | 1 A. M. Smith          | 8-21       | €cr          | --         | --            | --   | 3191        | Pool   | RT    |                    |
| 1952                 | Peru       | L 2 (4Q)      | 242 NL 1180 EL  |          | Ashland O. & R. Co.   | 1 T. & D. Dennis       |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 1953                 | Canaan     | S 8           | 1021 SL 267 EL  | NW       | Ashland O. & R. Co.   | 1 D. & H. Martin       |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 1954                 | Lincoln    | L 19 (3Q)     | 826 SL 497 WL   |          | Jerry Enkich & Assoc. | 1 R. K. Beck           | 8-17       | €cr          | --         | --            | --   | 3413        | Out    | RT    |                    |
| 1955                 | Gilead     | S 22          | 530 SL 1444 EL  | NW       | Ashland O. & R. Co.   | 1 R. & V. Hartpence    |            |              |            |               |      |             | Pool   | RT    | Replaced by P-2185 |
| 1956                 | Gilead     | S 13          | 345 SL 394 WL   | NE       | Bill Allen & Assoc.   | 2 C. D. Goodman        | 8-21       | €cr          | --         | --            | --   | 3592        | Pool   | RT    |                    |
| 1957                 | Cardington | L 5-E         | 230 SL 230 EL   |          | Kin-Ark Oil Co.       | A-1 R. & M. Mattix     | 8-28       | €cr          | Acid       | --            | 225  | 3150        | Pool   | RT    |                    |
| 1958                 | Cardington | S 17          | 221 NL 1110 EL  | SE       | Patrick Pet. Co.      | 1 E. Burgraff          | 8-17       | €cr          | --         | --            | --   | 3072        | Pool   | RT    |                    |
| 1959                 | Franklin   | L 18 (3Q)     | 845 NL 1585 WL  |          | W. F. Stricklin       | 1 D. K. Squires        | 12-30      | D?           | --         | --            | --   | --          | Pool   | CT    | Lost hole 645 ft.  |
| 1960                 | Canaan     | S 2           | 280 SL 330 EL   |          | Hoagland Dlg. Co.     | 1 Elmer Cox            | 8-24       | €cr          | --         | --            | --   | 3208        | FWC    | RT    |                    |
| 1961                 | Peru       | L 5 (4Q)      | 302 NL 320 EL   |          | Ashland O. & R. Co.   | 1 Irvin Lober          | 8-23       | €cr          | --         | --            | --   | 3242        | Out    | RT    |                    |
| 1962                 | Peru       | L 5 (4Q)      | 619 SL 1813 WL  |          | Ashland O. & R. Co.   | 2 I. & I. Lober        | 9-12       | €cr          | Acid       | --            | 168  | 3225        | Pool   | RT    |                    |
| 1963                 | Peru       | L 6 (4Q)      | 388 SL 1812 WL  |          | Ashland O. & R. Co.   | 3 I. & I. Lober        |            |              |            |               |      |             | Pool   | RT    | Abd. loc.          |
| 1964                 | Cardington | S 14          | 230 NL 1780 EL  | NE       | Ashland O. & R. Co.   | 1 C. & G. Shaffer      | 8-16       | €cr          | --         | --            | --   | 3230        | Pool   | RT    |                    |
| 1965                 | Peru       | L 4 (4Q)      | 65 NL 330 WL    |          | W. L. Lichlyter       | 1 G. V. Sheridan       | 9-23       | €cr          | Acid       | --            | 285  | 3105        | Pool   | RT    |                    |
| 1966                 | Gilead     | S 31          | 952 SL 1040 WL  | NW       | Blair & Morse         | 2 Morrow Co. Infirmary | 12-?       | €cr          | Acid       | --            | 15   | 3499        | Out    | CT    |                    |
| 1967                 | Gilead     | S 34          | 400 SL 83 WL    | SE       | Thurlow Weed          | 1 Hydraulic Press Mfg. | 10-8       | €cr          | Acid       | --            | --   | 3196        | Pool   | CT    |                    |
| 1968                 | Peru       | L 17 (1Q)     | 960 NL 80 EL    |          | Kin-Ark Oil Co.       | 1 DeVol-Whited         | 9-4        | €cr          | Acid       | --            | 300  | 3173        | Pool   | RT    |                    |
| 1969                 | Peru       | L 28 (3Q)     | 1821 NL 230 WL  |          | Dee Oil Co.           | 1 A. & H. Crawbaugh    | 8-20       | €cr          | Acid       | --            | 40   | 3080        | Pool   | RT    |                    |
| 1970                 | Peru       | L 31 (3Q)     | 1800 NL 1800 WL |          | Dee Oil Co.           | 2 A. & H. Crawbaugh    | 8-27       | €cr          | --         | --            | --   | 3050        | Pool   | RT    |                    |
| 1971                 | Lincoln    | L 36 (1Q)     | 550 SL 1145 EL  |          | Jerry Moore, Inc.     | 1 W. & F. Davis        | 9-3        | €cr          | Acid       | 640           | 320  | 3247        | Pool   | RT    |                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                   | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                 |
|----------------------|---------------|---------------|-----------------|----------|----------------------------|-----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-------------------------|
|                      |               |               |                 |          |                            |                       |            |              |            | MCFGPD        | BOPD |             |        |       |                         |
| MORROW COUNTY (con.) |               |               |                 |          |                            |                       |            |              |            |               |      |             |        |       |                         |
| 1972                 | Gilead        | S 22          | 1550 NL 1950 EL | NE       | T. Roy Wadkins             | 1 J. & M. Mosher      | 8-27       | €cr          | --         | --            | --   | 3350        | Pool   | RT    |                         |
| 1973                 | Cardington    | S 16          | 980 NL 330 WL   | NE       | Ashland O. & R. Co.        | 1 E. Hartsook         | 8-23       | €cr          | --         | --            | --   | 3100        | Pool   | RT    |                         |
| 1974                 | Gilead        | S 26-E        | 416 SL 869 EL   | SW       | Stocker & Sitler           | 1 F. & M. Pearson     | 8-19       | €cr          | --         | --            | --   | 3345        | Pool   | RT    |                         |
| 1975                 | Lincoln       | L 22 (1Q)     | 250 SL 1613 EL  |          | Cavalier Oil Co.           | 2-A D. & H. Cusick    | 8-21       | €cr          | --         | --            | --   | 3226        | Pool   | RT    |                         |
| 1976                 | Peru          | L 13 (1Q)     | 650 SL 940 EL   |          | Lake Shore Pipe Line       | 1 Anna Adams          | 8-24       | €cr          | --         | --            | --   | 3320        | Pool   | RT    |                         |
| 1977                 | Cardington    | S 21          | 1046 NL 150 EL  | SE       | Harry A. Holtom            | 4 Cardington Unit #1  | 10-2       | €cr          | --         | --            | --   | 3095        | Pool   | CT    |                         |
| 1978                 | Washington    | S 11          | 330 NL 570 EL   | NW       | M. L. Vance                | 1 A. & A. Ebert       | 8-28       | €cr          | --         | --            | --   | 3377        | Pool   | RT    |                         |
| 1979                 | Gilead        | S 26          | 725 SL 910 WL   | SE       | Ashland O. & R. Co.        | 1 J. & O. White       | 8-25       | €cr          | --         | --            | --   | 3220        | Out    | RT    |                         |
| 1980                 | N. Bloomfield | S 11          | 445 NL 326 WL   | NE       | Good & Good Dlg.           | 1 M. R. McClure       |            |              |            |               |      |             | FWC    | CT    | Active                  |
| 1981                 | Gilead        | S 22-N        | 410 SL 1092 WL  | SW       | Ashland O. & R. Co.        | 1 D. & S. Stotts      | 8-25       | €cr          | Acid       | --            | 600  | 3244        | Pool   | RT    |                         |
| 1982                 | Canaan        | S 34          | 1385 NL 765 EL  | NE       | Ashland O. & R. Co.        | 2 E. T. Bush          | 8-28       | €cr          | Acid       | --            | 48   | 3150        | Pool   | RT    | Wtr. 168 BPD. SWDW 11-4 |
| 1983                 | Canaan        | S 17          | 330 SL 330 WL   | SE       | Carter Devel. Co.          | 1 P. W. Bush          | 9-5        | €cr          | --         | --            | --   | 3031        | Pool   | RT    |                         |
| 1984                 | Peru          | S 13 (2Q)     | 344 SL 1738 EL  |          | W. E. Shrider              | 1 J. & A. Kanniard    | 9-13       | €cr          | Acid       | --            | 48   | 3098        | Pool   | CT    |                         |
| 1985                 | Gilead        | S 14          | 514 NL 2047 EL  | NE       | Hobson Oil Co.             | 7 E. & E. Jackson     | 8-27       | €cr          | --         | --            | --   | 3350        | Pool   | RT    |                         |
| 1986                 | Canaan        | S 27          | 1850 SL 1226 EL | SE       | Ashland O. & R. Co.        | 1 E. & F. Nixon       | 8-31       | €cr          | Acid       | --            | 480  | 3175        | Pool   | RT    |                         |
| 1987                 | Gilead        | S 30          | 276 NL 250 WL   | NE       | Prospectors, Inc.          | 1 C. & G. Galleher    | 10-21      | €cr          | Acid       | --            | 180  | 3499        | Pool   | RT    |                         |
| 1988                 | Gilead        | S 3           | 887 NL 690 EL   | NE       | Comanche Oil Co.           | 2 Justin Early        | 10-10      | €cr          | --         | --            | --   | 3183        | Pool   | RT    |                         |
| 1989                 | Peru          | L 13 (1Q)     | 388 SL 867 WL   |          | Cities Service Oil Co.     | 1 R. H. Osborn        | 9-7        | €cr          | --         | --            | --   | 3184        | Pool   | RT    |                         |
| 1990                 | Canaan        | S 17          | 998 SL 990 WL   | SE       | Carter Devel. Co.          | 2 P. W. Bush          |            |              |            |               |      |             | Pool   | RT    | Abd. loc.               |
| 1991                 | Peru          | L 9 (1Q)      | 545 SL 231 WL   |          | Clinton Oil Co.            | 3 L. & E. Howard      | 8-24       | €cr          | --         | --            | --   | 3214        | Pool   | RT    |                         |
| 1992                 | Cardington    | L 11          | 230 SL 230 EL   |          | R. C. Halbert; M. L. Vance | 2 M. & M. Barry       | 9-16       | €cr          | Acid       | --            | 35   | 3115        | Pool   | RT    |                         |
| 1993                 | Gilead        | S 2-E         | 1955 SL 42 EL   | SE       | Blue-Gray Dlg. Co.         | 1 C. & G. Neal        |            |              |            |               |      |             | Pool   | RT    | Abd. loc.               |
| 1994                 | Harmony       | L 8 (3Q)      | 860 SL 1590 EL  |          | Delaco Pet., Inc.          | 1 M. J. Lloyd         | 9-14       | €cr          | Acid       | 1250          | 350  | 3495        | Pool   | RT    |                         |
| 1995                 | Gilead        | S 19          | 230 SL 230 EL   | SW       | Royal O. & G. Co.          | 1 E. H. Shaw          | 10-11      | €cr          | Acid       | --            | --   | 3542        | Pool   | CT    |                         |
| 1996                 | Canaan        | S 18          | 230 SL 330 WL   | NW       | Ashland O. & G. Co.        | A-1 H. & E. McKinstry |            |              |            |               |      |             | Out    | RT    | Abd. loc.               |
| 1997                 | Canaan        | S 18          | 230 SL 990 WL   | NW       | Ashland O. & R. Co.        | A-2 H. & E. McKinstry |            |              |            |               |      |             | Out    | RT    | Abd. loc.               |
| 1998                 | Canaan        | S 18          | 330 SL 1707 WL  | NW       | Ashland O. & R. Co.        | A-3 H. & E. McKinstry | 9-6        | €cr          | --         | --            | --   | 3020        | Pool   | RT    |                         |
| 1999                 | Gilead        | S 14-N        | 698 SL 326 WL   | SE       | Ashland O. & R. Co.        | 1 Paul Nesbitt        |            |              |            |               |      |             | Out    | RT    | Abd. loc.               |
| 2000                 | Cardington    | S 22          | 199 NL 900 WL   | NW       | Ashland O. & R. Co.        | 4 Walter Long         | 8-31       | €cr          | --         | --            | --   | 3150        | Pool   | RT    |                         |
| 2001                 | Peru          | L 17 (1Q)     | 835 NL 2114 EL  |          | Kin-Ark Oil Co.            | 1 C. & W. DeVoi       | 8-25       | €cr          | --         | --            | --   | 3177        | Pool   | RT    |                         |
| 2002                 | Lincoln       | L 39 (4Q)     | 230 NL 230 WL   |          | Kin-Ark Oil Co.            | 1-A J. & M. Dominy    | 10-15      | €cr          | --         | --            | --   | 3200        | Pool   | RT    |                         |
| 2003                 | Lincoln       | S 24          | 640 SL 1675 EL  | SE       | Kin-Ark Oil Co.            | 1 J. F. Showalter     | 8-27       | €cr          | Acid       | --            | 125  | 3125        | Pool   | RT    |                         |
| 2004                 | Peru          | L 13 (1Q)     | 1280 NL 1400 WL |          | Lake Shore Pipe Line       | 1 A. E. Ogle          | 8-31       | €cr          | Acid       | --            | 250  | 3212        | Pool   | RT    |                         |
| 2005                 | Peru          | L 13 (1Q)     | 1192 SL 126 EL  |          | Clinton Oil Co.            | 2 Jordan-Rausch       | 9-22       | €cr          | --         | --            | --   | 3165        | Pool   | CT    |                         |
| 2006                 | Lincoln       | S 17          | 690 SL 1135 WL  | SW       | Don E. Davis               | 2 E. & S. Moodespaugh |            |              |            |               |      |             | Pool   | RT    | Active                  |
| 2007                 | Franklin      | S 4 (4Q)      | 230 SL 1223 EL  |          | Capitol City Pet. Co.      | 1 H. D. Reed          | 9-14       | €cr          | --         | --            | --   | 4000        | Pool   | RT    |                         |
| 2008                 | Cardington    | S 5           | 2200 SL 330 EL  | SE       | Ashland O. & R. Co.        | 1 Edna Snyder         | 9-4        | €cr          | --         | --            | --   | 3080        | Pool   | RT    |                         |
| 2009                 | Cardington    | S 3           | 2170 SL 1096 WL | SW       | Ashland O. & R. Co.        | 3 H. & M. Lee         | 9-10       | €cr          | Acid       | --            | 360  | 3175        | Pool   | RT    |                         |
| 2010                 | Cardington    | S 4           | 2160 SL 1660 EL | SE       | Ashland O. & R. Co.        | 4 C. & F. Clinger     |            |              |            |               |      |             | Pool   | RT    | Abd. loc.               |
| 2011                 | Gilead        | S 7           | 1580 SL 1600 WL | SW       | Dock Oil Prod., Inc.       | 1 J. & M. Cole        | 9-8        | €cr          | --         | --            | --   | 3512        | Pool   | RT    |                         |
| 2012                 | Gilead        | S 2           | 2600 NL 610 WL  | NW       | ThurLOW Weed               | 3 Farm Bureau, Inc.   |            |              |            |               |      |             | Pool   | CT    | Active                  |
| 2013                 | Peru          | L 18 (4Q)     | 360 NL 316 WL   |          | Ashland O. & R. Co.        | 1 H. R. Neil          |            |              |            |               |      |             | Pool   | RT    | Replaced by P-2382      |
| 2014                 | Peru          | L 4 (4Q)      | 330 SL 1540 EL  |          | Ashland O. & R. Co.        | 1 Fred Ribov          |            |              |            |               |      |             | FWC    | RT    | Abd. loc.               |
| 2015                 | Canaan        | S 17          | 1660 SL 997 WL  | SW       | Ashland O. & R. Co.        | 2 W. & D. Ault        |            |              |            |               |      |             | FWC    | RT    | Replaced by P-2071      |
| 2016                 | Cardington    | S 4           | 1200 WL 2220 SL | SW       | Ashland O. & R. Co.        | 5 C. & F. Clinger     |            |              |            |               |      |             | Pool   | RT    | Abd. loc.               |



## LIST OF OPERATIONS DURING 1964

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| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                  | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks         |
|----------------------|---------------|---------------|-----------------|----------|---------------------------|------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-----------------|
|                      |               |               |                 |          |                           |                        |            |              |            | MCFGPD        | BOPD |             |        |       |                 |
| MORROW COUNTY (con.) |               |               |                 |          |                           |                        |            |              |            |               |      |             |        |       |                 |
| 2017                 | Cardington    | S 16          | 1700 NL 1650 WL | NW       | Ashland O. & R. Co.       | A-7 Roma Sellars       |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 2018                 | Lincoln       | L 17 (3Q)     | 1135 SL 265 WL  |          | Cavalier Oil Co.          | 1 A. & B. Boggs        | 9-5        | €cr          | Acid       | --            | 230  | 3346        | Pool   | RT    | Replaces P-1761 |
| 2019                 | Lincoln       | L 15 (1Q)     | 270 SL 400 EL   |          | Hill Prod. Co.            | 1-A Stella Powers      | 9-5        | €cr          | --         | --            | --   | 3196        | Pool   | RT    |                 |
| 2020                 | Lincoln       | L 37 (2Q)     | 230 SL 665 EL   |          | P. Fulk, Sr.;Patrick Pet. | 2 J. & E. Wilhelm      | 9-3        | €cr          | --         | --            | --   | 3350        | Pool   | RT    |                 |
| 2021                 | Peru          | L 10 (4Q)     | 230 SL 2734 EL  |          | Perry Fulk, Sr.           | 1 Willis Burke         | 9-11       | €cr          | --         | --            | --   | 3185        | FWC    | RT    |                 |
| 2022                 | Canaan        | S 10          | 1633 NL 1685 EL | NE       | Ashland O. & R. Co.       | 1 F. & M. Pangborn     | 9-9        | €cr          | --         | --            | --   | 3180        | FWC    | RT    |                 |
| 2023                 | Gilead        | S 2-W         | 340 NL 1340 EL  | NE       | Jerry Moore, Inc.         | B-3 Barbara Scott      | 10-4       | €cr          | --         | --            | --   | 3236        | Pool   | RT    |                 |
| 2024                 | Gilead        | S 2-E         | 2450 SL 500 EL  | SE       | McLean Oil Devel.         | 1 J. & E. Bostic       |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 2025                 | Gilead        | S 2-E         | 365 NL 855 WL   | SW       | Scioto Dlg. Co.           | 1-A Gale Westbrook     | 9-16       | €cr          | --         | --            | --   | 3231        | Pool   | RT    |                 |
| 2026                 | Harmony       | L 5 (4Q)      | 30 NL 1078 EL   |          | Skiles Cen. Ohio Explor.  | 1 Frank Turner         | 9-11       | €cr          | --         | --            | --   | 3752        | FWC    | RT    |                 |
| 2027                 | Peru          | L 12 (4Q)     | 230 NL 430 WL   |          | Reco O. & G. Co.          | 2 E. & E. Van Sickle   | 9-6        | €cr          | --         | --            | --   | 3230        | NWC    | RT    |                 |
| 2028                 | Lincoln       | S 18 (3Q)     | 860 NL 665 WL   |          | Kin-Ark Oil Co.           | 1 H. L. Fischer        | 9-14       | €cr          | Acid       | --            | 600  | 3131        | Pool   | RT    |                 |
| 2029                 | Lincoln       | S 24          | 1015 NL 685 EL  | SW       | Kin-Ark Oil Co.           | 1 R. N. Riggle         | 9-14       | €cr          | --         | --            | --   | 3230        | Pool   | RT    |                 |
| 2030                 | Gilead        | S 2-E         | 268 SL 1005 EL  | SE       | Bates & Westphal          | 2 Heimlich-Bronson     | 9-15       | €cr          | --         | --            | --   | 3323        | Pool   | RT    |                 |
| 2031                 | Harmony       | L 3 (2Q)      | 950 SL 1432 EL  |          | Cavalier Oil Co.          | 3 J. & D. Graves       |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 2032                 | Peru          | L 14 (1Q)     | 173 NL 762 EL   |          | W. L. Lichlyter           | 1 K. & E. Armstrong    | 9-14       | €cr          | Acid       | --            | 360  | 3140        | Pool   | RT    |                 |
| 2033                 | Gilead        | S 26-W        | 803 NL 803 WL   | NE       | Ashland O. & R. Co.       | 2 J. H. Kelley         | 9-29       | €cr          | Acid       | --            | 320  | 3246        | Pool   | RT    | Replaces P-1430 |
| 2034                 | Canaan        | S 34          | 1550 SL 1800 EL | SE       | Ashland O. & R. Co.       | 3 R. & M. Bush         |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 2035                 | Harmony       | L 26 (4Q)     | 685 SL 975 EL   |          | R. O. Leighton            | 2 W. & L. Arons        | 11-19      | €cr          | Acid       | --            | 25   | 3636        | Pool   | CT    |                 |
| 2036                 | Bennington    | L 2 (2Q)      | 700 SL 2151 EL  |          | Clinton Oil Co.           | 2 J. L. Christian      | 10-3       | €cr          | --         | --            | --   | 3518        | Pool   | CT    |                 |
| 2037                 | Bennington    | L 15 (1Q)     | 1412 SL 230 EL  |          | Howard D. Atha            | 1 R. E. Osborn         | 9-15       | €cr          | --         | --            | --   | 3750        | Pool   | RT    |                 |
| 2038                 | Canaan        | S 34          | 1090 SL 790 EL  | SE       | Ashland O. & R. Co.       | 3 Jolley-Whitney-Olds  | 9-16       | €cr          | Acid       | --            | 190  | 3152        | Pool   | RT    |                 |
| 2039                 | Canaan        | S 16          | 1650 NL 330 WL  | NW       | Ashland O. & R. Co.       | 1 B. R. Moore          |            |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 2040                 | Bennington    | S 20          | 990 NL 450 WL   | SE       | Hadson Ohio Oil Co.       | 1 P. & N. Mattox       | 9-10       | €cr          | --         | --            | --   | 3753        | Pool   | RT    |                 |
| 2041                 | Westfield     | L 9 (3Q)      | 624 NL 690 WL   |          | Pilgrim O. & G. Co.       | 1 D. & R. McGinnis     | 10-29      | Omc?         | --         | --            | --   | 2680        | FWC    | CT    |                 |
| 2042                 | Gilead        | S 23-S        | 784 NL 1295 EL  | NE       | Pilgrim O. & G. Co.       | 3 Wave Stahl           | 10-8       | €cr          | --         | --            | --   | 3318        | Pool   | CT    |                 |
| 2043                 | Lincoln       | L 20 (3Q)     | 230 SL 855 WL   |          | C. W. Collin              | 1 F. A. Korody         | 12-9       | €cr          | Acid       | --            | 250  | 3378        | FWC    | CT    | Discovery       |
| 2044                 | Harmony       | L 34 (4Q)     | 230 NL 230 WL   |          | Cavalier Oil Co.          | 1 Ralph West           | 10-7       | €cr          | --         | --            | --   | 3552        | Pool   | CT    |                 |
| 2045                 | Peru          | S 15 (2Q)     | 880 SL 1219 WL  |          | Kin-Ark Oil Co.           | 2 A. & I. Stricklen    | 9-16       | €cr          | --         | --            | --   | 3112        | Pool   | RT    |                 |
| 2046                 | Bennington    | S 20          | 1882 NL 230 WL  | NW       | C. B. Earnest             | 1 O. & R. Stokebury    | 9-23       | €cr          | Acid       | --            | 30   | 3706        | Pool   | RT    |                 |
| 2047                 | Harmony       | L 23 (4Q)     | 330 SL 1619 EL  |          | Southern Triangle Oil     | 2 D. L. Waltz          | 11-19      | €cr          | Acid       | --            | --   | 3694        | Pool   | RT    |                 |
| 2048                 | Gilead        | S 27          | 1520 SL 770 WL  | SW       | Royal O. & G. Co.         | 4 R. & H. Long         | 10-2       | €cr          | --         | --            | --   | 3215        | Pool   | CT    |                 |
| 2049                 | Cardington    | S 10          | 890 NL 430 EL   | NE       | Frank M. Dever            | 1 D. & M. Feld         | 9-12       | €cr          | --         | --            | --   | 3205        | Pool   | RT    |                 |
| 2050                 | Bennington    | L 2 (1Q)      | 890 SL 1107 EL  |          | L. B. Jackson Co.         | 1 E. Ross              | 9-14       | €cr          | Acid       | --            | --   | 3832        | Pool   | RT    |                 |
| 2051                 | Gilead        | S 30          | 660 NL 230 WL   | NW       | Polaris Dlg. Co.          | 2 C. & C. Shaw         | 9-16       | €cr          | --         | --            | --   | 3515        | Pool   | RT    |                 |
| 2052                 | Peru          | L 14 (1Q)     | 595 NL 764 WL   |          | Kin-Ark Oil Co.           | 1 Raymond Rusk         | 9-22       | €cr          | Acid       | --            | 525  | 3166        | Pool   | RT    |                 |
| 2053                 | Lincoln       | L 30 (4Q)     | 230 NL 750 EL   |          | Jerry Moore, Inc.         | 2 J. & M. Walter       |            |              |            |               |      |             | Out    | RT    | Abd. loc.       |
| 2054                 | S. Bloomfield | S 6           | 747 NL 230 WL   | SW       | Skip Pauley               | 1 C. & F. Snashall     | 11-27      | €cr          | --         | --            | --   | 3762        | Out    | CT    |                 |
| 2055                 | Canaan        | S 20          | 660 NL 16 EL    | SW       | Ashland O. & R. Co.       | 2 Gillson-Murphy-White | 9-14       | €cr          | --         | --            | --   | 3032        | Pool   | RT    |                 |
| 2056                 | Gilead        | S 23-W        | 1150 SL 1405 WL | SE       | Ashland O. & R. Co.       | 1 Williams-Long        | 9-14       | €cr          | --         | --            | --   | 3232        | Pool   | RT    | SWDW            |
| 2057                 | Gilead        | S 15          | 991 NL 588 WL   | NW       | Ashland O. & R. Co.       | 2 C. N. Shaffer        | 9-24       | €cr          | Acid       | --            | 408  | 3271        | Pool   | RT    |                 |
| 2058                 | Canaan        | S 20          | 699 SL 660 EL   | SW       | Ashland O. & R. Co.       | 1 R. & J. Gillson      | 10-1       | €cr          | Acid       | --            | 360  | 3056        | Pool   | RT    |                 |
| 2059                 | Washington    | S 10-S        | 1370 SL 410 EL  | SW       | Ashland O. & R. Co.       | 1 H. J. Kunze          | 9-21       | €cr          | --         | --            | --   | 3355        | Pool   | RT    |                 |
| 2060                 | Peru          | L 20 (3Q)     | 525 SL 230 WL   |          | Charles E. Beck           | 1 Mary Smith           | 10-26      | €cr          | --         | --            | --   | 3103        | Pool   | RT    |                 |
| 2061                 | Gilead        | S 14-S        | 231 NL 1550 EL  | NE       | Hobson Oil Co.            | 4 E. & E. Jackson      | 9-12       | €cr          | --         | --            | --   | 3420        | Pool   | RT    |                 |

SUMMARY OF OIL AND GAS ACTIVITY IN 1964

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.                 | Lease | Date Comp.           | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |             |
|----------------------|---------------|---------------|-----------------|----------|--------------------------|-------|----------------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|-------------|
|                      |               |               |                 |          |                          |       |                      |              |            | MCFGPD        | BOPD |             |        |       |                    |             |
| MORROW COUNTY (con.) |               |               |                 |          |                          |       |                      |              |            |               |      |             |        |       |                    |             |
| 2062                 | S. Bloomfield | S 4           | 357 SL 1490 WL  | SE       | Keillor & Clark          | 3     | A. G. Schatzman      | 11-28        | €cr        | --            | --   | 3912        | Pool   | CT    |                    |             |
| 2063                 | Cardington    | L 5-E         | 436 NL 274 EL   |          | Kin-Ark Oil Co.          | 2-A   | R. & M. Mattix       | 10-2         | €cr        | --            | --   | 3153        | Pool   | RT    |                    |             |
| 2064                 | Gilead        | S 13-S        | 11 SL 1012 EL   | SE       | Ashland O. & R. Co.      | 1     | C. & T. Losey, Sr.   | 10-1         | €cr        | --            | --   | 3558        | Pool   | RT    |                    |             |
| 2065                 | Canaan        | S 19          | 377 SL 1695 EL  | NE       | Ashland O. & R. Co.      | 1     | W. G. Coulter        | 10-19        | €cr        | Acid          | --   | 80          | 3024   | Pool  | RT                 |             |
| 2066                 | Peru          | L 16 (4Q)     | 230 NL 400 EL   |          | Lake Shore Pipe Line     | 1     | Stella Cowgill       | 9-21         | €cr        | --            | --   | 3403        | Pool   | RT    |                    |             |
| 2067                 | Lincoln       | L 35 (2Q)     | 844 NL 1780 EL  |          | Lake Shore Pipe Line     | 1     | Aspery-Stiner        | 9-21         | €cr        | --            | --   | 3499        | Pool   | RT    |                    |             |
| 2068                 | Bennington    | S 19          | 230 SL 432 EL   | SW       | Allen Guiberson          | 1     | W. & C. Dudgeon      | 9-20         | €cr        | --            | --   | 3600        | Pool   | RT    |                    |             |
| 2069                 | Westfield     | S 21          | 1017 NL 1694 WL | SW       | Allen A. Borton          | 1     | A. & B. Etgen        | 11-12        | €cr        | --            | --   | 2913        | FWC    | CT    |                    |             |
| 2070                 | Chester       | L 4 (2Q)      | 720 NL 1750 WL  |          | Consolidated O. & G.     | 1     | Hoffman-Weiler       | 9-18         | €cr        | --            | --   | 3748        | Pool   | RT    |                    |             |
| 2071                 | Canaan        | S 17          | 922 NL 997 WL   | SW       | Perry Fulk, Sr.          | 2     | W. & D. Ault         |              |            |               |      |             | Pool   | RT    | Abd. loc.          |             |
| 2072                 | Canaan        | S 17          | 834 NL 330 WL   | SW       | Perry Fulk, Sr.          | 1     | E. N. Dean           | 9-19         | €cr        | --            | --   | 2903        | Pool   | RT    | Replaces P-1942    |             |
| 2073                 | Gilead        | S 26-E        | 306 SL 1085 WL  | NW       | Perry Fulk, Sr.          | 1     | R. & R. Miller       | 9-16         | €cr        | --            | --   | 3334        | Pool   | RT    |                    |             |
| 2074                 | Peru          | S 4           | 230 SL 1111 EL  | SW       | Thomas B. Cole           | 1     | Ethel Staley         | 10-7         | €cr        | --            | --   | 3064        | Pool   | CT    |                    |             |
| 2075                 | Peru          | L 28 (3Q)     | 239 SL 361 WL   |          | W. E. Shrider            | 1     | C. & M. Miley        | 10-17        | €cr        | --            | --   | 3105        | Pool   | CT    |                    |             |
| 2076                 | Lincoln       | L 30 (4Q)     | 230 SL 890 WL   |          | Jerry Moore, Inc.        | 1     | J. & M. Watters      | 11-14        | €cr        | Acid          | 380  | 531         | 3277   | Pool  | CT                 |             |
| 2077                 | Cardington    | S 11          | 1045 SL 335 EL  | NW       | Belden & Blake & Co.     | 3     | R. & M. Hess         | 10-21        | €cr        | --            | --   | 3209        | Pool   | RT    |                    |             |
| 2078                 | Gilead        | S 2-W         | 910 SL 230 WL   | SW       | Bill Allen & Assoc.      | 1     | Harvey Smith         |              |            |               |      |             | Pool   | RT    | Active             |             |
| 2079                 | Gilead        | S 3           | 258 NL 330 EL   | SE       | Comanche Oil Co.         | 6-C   | W. & L. Westbrook    | 9-20         | €cr        | Acid          | --   | 150         | 3175   | Pool  | RT                 |             |
| 2080                 | Westfield     | L 19 (1Q)     | 932 NL 1061 WL  |          | Gibraltar Mfg. Co.       | 1     | G. Ocker             | 11-5         | €cr        | --            | --   | 2974        | Pool   | CT    |                    |             |
| 2081                 | Canaan        | S 17          | 577 SL 124 EL   |          | Branoco of Ohio, Inc.    | 1     | Francis Lyon         | 9-13         | €cr        | --            | --   | 3081        | Pool   | RT    |                    |             |
| 2082                 | Troy          | S 17          | 330 SL 330 EL   | NE       | Obie Shaw (J. Fulford)   | 1     | W. & D. Sanderlin    |              |            |               |      |             | FWC    | RT    | Active             |             |
| 2083                 | Peru          | L 4 (4Q)      | 525 NL 233 WL   |          | W. L. Lichlyter          | 2     | G. V. Sheridan       | 9-22         | €cr        | --            | --   | 3075        | Pool   | RT    |                    |             |
| 2084                 | Gilead        | S 7           | 1910 SL 1539 EL | SE       | J. E. Fulford            | 2     | D. & C. Ansley       | 12-30        | €cr        | --            | --   | 3400        | Pool   | RT    |                    |             |
| 2085                 | Westfield     | S 13 (4Q)     | 1367 NL 1060 WL | NW       | Floyd Endicott           | 2     | W. & L. Gattshall    | 12-4         | €cr        | --            | --   | 2795        | FWC    | CT    |                    |             |
| 2086                 | Lincoln       | S 24          | 220 SL 655 EL   | SE       | W. E. Shrider            | 2     | R. & F. Parsons      | 11-1         | €cr        | Acid          | --   | 300         | 3090   | Pool  | RT                 |             |
| 2087                 | Gilead        | S 11          | 232 SL 1520 EL  | SE       | Keener Oil Co.           | 1     | Thomas Daniels       |              |            |               |      |             | Pool   | RT    | Abd. loc.          |             |
| 2088                 | Harmony       | L 6 (4Q)      | 866 SL 1347 EL  |          | Skiles Cen. Ohio Explor. | 1     | J. L. Evans          | 10-1         | €cr        | Acid          | --   | 100         | 3699   | FWC   | Wtr. 40 BPD        |             |
| 2089                 | Peru          | S 14          | 510 NL 873 EL   | NE       | Stocker & Sitler         | 1     | M. & R. Schillinger  | 10-17        | €cr        | --            | --   | 3092        | Pool   | RT    | SWDW               |             |
| 2090                 | Peru          | S 7           | 579 SL 463 WL   | SW       | Stocker & Sitler         | 2     | H. & C. Crist        | 9-22         | €cr        | --            | --   | 3018        | Pool   | RT    |                    |             |
| 2091                 | Troy          | S 18          | 330 NL 1700 WL  |          | Mt. Carmel Dlg. Co.      | 1     | G. L. Smith          | 10-10        | €cr        | --            | --   | 4054        | FWC    | RT    |                    |             |
| 2092                 | Troy          | S 7           | 1110 NL 1840 WL | NW       | Mt. Carmel Dlg. Co.      | 1     | C. G. Meckley        | 9-25         | €cr        | --            | --   | 3900        | Pool   | RT    |                    |             |
| 2093                 | Harmony       | L 11 (2Q)     | 449 SL 40 WL    |          | Cavalier Oil Co.         | 1     | H. & F. Brown        | 9-25         | €cr        | --            | --   | 3469        | Out    | RT    |                    |             |
| 2094                 | Cardington    | L 6-E         | 400 SL 1546 EL  |          | Kin-Ark Oil Co.          | 1     | V. & A. Shaw         | 10-9         | €cr        | --            | --   | 3160        | Pool   | RT    |                    |             |
| 2095                 | Lincoln       | S 23 (3Q)     | 2328 SL 1065 WL |          | Kin-Ark Oil Co.          | 2     | F. J. Cook           | 9-20         | €cr        | Acid          | --   | 350         | 3126   | Pool  | RT                 |             |
| 2096                 | Congress      | S 2           | 1225 NL 400 EL  | NW       | E. R. Thomas             | 2     | C. & N. Perkins      | 10-28        | €cr        | --            | --   | 3976        | FWC    | CT    |                    |             |
| 2097                 | Peru          | L 12 (3Q)     | 250 NL 235 EL   |          | Merle B. Piper           | 2     | N. S. Keener         | 10-30        | €cr        | --            | --   | 3077        | Pool   | CT    |                    |             |
| 2098                 | Canaan        | S 29          | 330 NL 330 EL   | NE       | Ashland O. & R. Co.      | 1     | Payne-Mitchell-Evans | 9-27         | €cr        | Acid          | --   | 192         | 3080   | Pool  | RT                 | Wtr. 96 BPD |
| 2099                 | Peru          | S 4           | 425 NL 2450 WL  | NW       | W. E. Shrider            | 1     | J. & D. Morgan       | 10-5         | €cr        | Acid          | --   | 100         | 3090   | Pool  | RT                 |             |
| 2100                 | Lincoln       | L 37 (1Q)     | 552 SL 920 WL   |          | Jerry Moore, Inc.        | 2     | F. & E. McDonald     | 9-26         | €cr        | --            | --   | 3258        | Pool   | RT    |                    |             |
| 2101                 | Lincoln       | L 31 (4Q)     | 230 NL 430 WL   |          | Natol Pet. Corp.         | 1     | D. & S. Baker        | 9-25         | €cr        | --            | --   | 3300        | Pool   | RT    |                    |             |
| 2102                 | Gilead        | S 14          | 1604 NL 982 EL  | NE       | Hobson Oil Co.           | 5     | E. & E. Jackson      | 9-25         | €cr        | --            | --   | 3343        | Pool   | RT    |                    |             |
| 2103                 | Peru          | S 7           | 678 SL 410 WL   | SE       | Stocker & Sitler         | 1     | C. & V. Helton       | 10-22        | €cr        | Acid          | --   | 2973        | Pool   | RT    |                    |             |
| 2104                 | Lincoln       | L 1 (2Q)      | 230 NL 230 EL   |          | Kin-Ark Oil Co.          | 2-A   | F. Underwood         | 9-26         | €cr        | --            | --   | 3150        | Pool   | RT    |                    |             |
| 2105                 | Peru          | L 12 (1Q)     | 110 NL 670 EL   |          | Comanche Oil Co.         | 1     | J. R. Dowalter       |              |            |               |      |             | Pool   | RT    | Replaced by P-2151 |             |
| 2106                 | Gilead        | S 22          | 1396 NL 1042 EL | NW       | Ashland O. & R. Co.      | 1     | J. E. Baker          | 10-4         | €cr        | --            | --   | 3300        | Pool   | RT    |                    |             |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No.               | Lease | Date Comp.          | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks         |
|----------------------|---------------|---------------|-----------------|----------|------------------------|-------|---------------------|--------------|------------|---------------|------|-------------|--------|-------|-----------------|
|                      |               |               |                 |          |                        |       |                     |              |            | MCFGPD        | BOPD |             |        |       |                 |
| MORROW COUNTY (con.) |               |               |                 |          |                        |       |                     |              |            |               |      |             |        |       |                 |
| 2107                 | Canaan        | S 20          | 1937 NL 772 EL  | NE       | Ashland O. & R. Co.    | 1     | W. & D. Ault        |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 2108                 | Peru          | L 4 (3Q)      | 392 NL 948 WL   |          | Alum Creek O. & G. Co. | 1     | R. & G. Swagler     | 9-24         | €cr        | --            | --   | 3205        | Pool   | RT    |                 |
| 2109                 | Lincoln       | L 35 (4Q)     | 740 SL 230 EL   |          | Keener Oil Co.         | 1     | E. & E. Fegley      | 9-28         | €cr        | Acid          | --   | 657         | Out    | RT    |                 |
| 2110                 | Chester       | L 26          | 465 NL 860 WL   |          | Barron Oil Co.         | 1     | R. & M. Donovan     |              |            |               |      |             | Pool   | RT    | Active          |
| 2111                 | Peru          | L 27 (3Q)     | 740 NL 1549 WL  |          | W. E. Shrider          | 1     | L. & F. Westbrook   | 10-30        | €cr        | --            | --   | 3020        | Pool   | CT    |                 |
| 2112                 | Peru          | L 13 (1Q)     | 820 NL 1675 WL  |          | Lake Shore Pipe Line   | 2     | S. & M. Bible       | 10-1         | €cr        | Acid          | --   | 250         | 3232   | Pool  | RT              |
| 2113                 | Bennington    | S 20          | 430 SL 230 WL   | NW       | C. B. Earnest          | 1     | C. & E. Berry       | 9-29         | €cr        | --            | --   | --          | 3669   | Out   | RT              |
| 2114                 | Peru          | S 6 (2Q)      | 2299 NL 1414 WL |          | Kin-Ark Oil Co.        | 1     | Smiley-Coomer       | 9-28         | €cr        | --            | --   | --          | 3100   | Pool  | RT              |
| 2115                 | Bennington    | L 25 (1Q)     | 230 NL 1320 WL  |          | Basore Oil Co.         | 1     | D. & J. Edwards     |              |            |               |      |             | FWC    | RT    | Active          |
| 2116                 | S. Bloomfield | S 12          | 990 SL 1642 WL  | SW       | Diversa, Inc.          | 1     | Harold Mahan        | 10-6         | €cr        | --            | --   | --          | 4080   | FWC   | RT              |
| 2117                 | Peru          | L 2 (1Q)      | 895 NL 240 EL   |          | Clinton Oil Co.        | 1     | P. & W. Hinkle, Jr. | 10-19        | €cr        | --            | --   | --          | 3236   | Pool  | CT              |
| 2118                 | Bennington    | S 19          | 1650 NL 1031 EL | NE       | Raymond Brinkley       | 2     | O. & R. Stokesbury  | 10-21        | €cr        | --            | --   | --          | 3766   | Pool  | RT              |
| 2119                 | Franklin      | L 24 (4Q)     | 720 NL 450 EL   |          | M. L. Vance            | 1     | D. C. Allen         | 10-6         | €cr        | --            | --   | --          | 4070   | Pool  | RT              |
| 2120                 | Gilead        | S 2-E         | 71 NL 810 WL    | SW       | Scioto Dlg. Co.        | 1-B   | Gale Westbrook      | 10-12        | €cr        | Acid          | --   | --          | 3245   | Pool  | RT              |
| 2121                 | Lincoln       | L 16 (2Q)     | 460 NL 280 WL   |          | Belden & Blake & Co.   | 1     | Edgar Schorr        | 9-29         | €cr        | --            | --   | --          | 3260   | FWC   | RT              |
| 2122                 | Perry         | S 32          | 300 SL 230 WL   | NW       | Jack P. Van Norman     | 1     | V. & E. Jordan      | 10-13        | €cr        | Acid          | 250  | --          | 4019   | FWC   | RT              |
| 2123                 | Gilead        | S 1           | 430 SL 230 WL   | SE       | Thurlow Weed           | 1     | J. T. Ingmire       | 10-22        | €cr        | --            | --   | --          | 3408   | Pool  | RT              |
| 2124                 | Chester       | L 7-W (1Q)    | 2350 SL 766 WL  |          | Allen A. Borton        | 1     | D. E. Shinaberry    | 10-21        | €cr        | --            | --   | --          | 3886   | FWC   | RT              |
| 2125                 | Canaan        | S 17          | 705 SL 1583 EL  | NE       | Branoco of Ohio, Inc.  | 2     | Francis Lyon        | 9-30         | €cr        | --            | --   | --          | 3023   | Pool  | RT              |
| 2126                 | Washington    | S 36          | 230 SL 230 EL   | SE       | Affeld Oil Co.         | 1-B   | A. & F. Smith       | 10-11        | €cr        | Acid          | --   | 100         | 3458   | FWC   | RT              |
| 2127                 | Gilead        | S 10          | 364 NL 1130 WL  | NW       | Comanche Oil Co.       | 3-W   | Rambarger-Sikes     | 10-2         | €cr        | --            | --   | --          | 3188   | Pool  | RT              |
| 2128                 | Chester       | L 15 (1Q)     | 900 SL 900 EL   |          | Cysony Oil Co.         | 1     | L. & J. Levering    | 10-26        | Obr?       | --            | --   | --          | 3325   | FWC   | RT              |
| 2129                 | Westfield     | L 11 (2Q)     | 550 NL 950 WL   |          | W. T. Denton           | 2     | H. & A. Brandes     | 11-16        | €cr        | --            | --   | --          | 2788   | FWC   | CT              |
| 2130                 | Chester       | L 21 (3Q)     | 230 SL 1110 EL  |          | Blair & Morse, Inc.    | 4     | Charles Kidwell     | 10-5         | €cr        | --            | --   | --          | 3818   | Pool  | RT              |
| 2131                 | Gilead        | S 36          | 230 SL 78 EL    | SW       | Griffith Prod. Co.     | 1     | H. G. Curran        | 11-6         | €cr        | --            | --   | --          | 3395   | Pool  | RT              |
| 2132                 | Franklin      | S 9           | 640 SL 995 EL   | NE       | Griffith Prod. Co.     | 1     | F. W. Goodman       | 10-10        | €cr        | --            | --   | --          | 3675   | FWC   | RT              |
| 2133                 | Lincoln       | S 23          | 668 NL 1581 WL  | SW       | Ashland O. & R. Co.    | 1     | Carl Mosher         | 10-12        | €cr        | --            | --   | --          | 3199   | Pool  | RT              |
| 2134                 | Harmony       | L 14 (4Q)     | 230 SL 25 WL    |          | Lake Shore Pipe Line   | 1     | L. & S. Copeland    | 10-8         | €cr        | --            | --   | --          | 3847   | Out   | RT              |
| 2135                 | Cardington    | S 10          | 1755 NL 1090 WL | NW       | Graytex Dlg. Co.       | 1     | A. W. Smith         | 10-13        | €cr        | --            | --   | --          | 3203   | Pool  | RT              |
| 2136                 | Bennington    | L 10 (2Q)     | 330 SL 6025 WL  |          | Hadson Ohio Oil Co.    | 1     | J. & E. Whipple     | 10-11        | €cr        | --            | --   | --          | 3590   | Out   | RT              |
| 2137                 | Peru          | L 14 (1Q)     | 294 NL 230 WL   |          | John Adams             | 1     | H. & F. Fisher      | 10-12        | €cr        | --            | --   | --          | 3317   | Pool  | RT              |
| 2138                 | Canaan        | S 18          | 318 SL 450 EL   | SE       | Pyramid O. & G. Co.    | 1     | H. & P. Meade       | 11-6         | €cr        | --            | --   | --          | 2949   | Pool  | CT              |
| 2139                 | Peru          | L 10 (3Q)     | 295 SL 1062 WL  |          | Kin-Ark Oil Co.        | 1     | Jenkins-Henry-Senff | 10-3         | €cr        | --            | --   | --          | 3152   | Pool  | RT              |
| 2140                 | Peru          | L 9 (3Q)      | 192 NL 426 WL   |          | Kin-Ark Oil Co.        | 2     | Jenkins-Henry-Senff |              |            |               |      |             | Pool   | RT    | Abd. loc.       |
| 2141                 | Canaan        | S 32          | 230 NL 230 EL   | NE       | Carter Devel. Co.      | 1     | J. Pfeifer          | 10-18        | €cr        | --            | --   | --          | 3120   | Pool  | RT              |
| 2142                 | Harmony       | S 1           | 1630 SL 400 EL  | SE       | William M. Boase       | 1     | N. & M. Ault        | 10-16        | €cr        | --            | --   | --          | 3613   | FWC   | RT              |
| 2143                 | Gilead        | S 3           | 1750 SL 600 EL  | SW       | Comanche Oil Co.       | 4-C   | R. L. Sipe          | 10-10        | €cr        | --            | --   | --          | 3195   | Pool  | RT              |
| 2144                 | Lincoln       | L 13 (1Q)     | 250 NL 230 WL   |          | Don Baines Dlg. Co.    | 3     | Oma Holland         | 10-16        | €cr        | Acid          | --   | --          | 3223   | Pool  | RT              |
| 2145                 | Gilead        | S 26-W        | 845 SL 518 EL   | SE       | Frank M. Dever         | 1     | Eva Potts           | 10-7         | €cr        | --            | --   | --          | 3235   | Pool  | CT              |
| 2146                 | Bennington    | L 20 (2Q)     | 230 NL 253 EL   |          | Gibson Oil Co.         | 1     | M. & R. Evans       | 10-11        | €cr        | --            | --   | --          | 3325   | NWC   | RT              |
| 2147                 | Gilead        | S 10          | 1840 NL 1580 EL | NE       | Graytex Dlg. Co.       | 2     | Edna Mosher         | 10-18        | €cr        | --            | --   | --          | 3302   | Pool  | RT              |
| 2148                 | Troy          | S 19          | 990 SL 3000 WL  | SW       | Mt. Carmel Dlg. Co.    | 1     | C. & L. Snyder      | 10-21        | €cr        | --            | --   | --          | 4108   | FWC   | RT              |
| 2149                 | Gilead        | S 15          | 58 SL 382 WL    | NE       | T. J. Hobson           | 1     | O. & F. Horn        | 10-15        | €cr        | --            | --   | --          | 3221   | Pool  | RT              |
| 2150                 | Lincoln       | L 35 (4Q)     | 265 SL 250 EL   |          | Keener Oil Co.         | 2     | E. & E. Fegley      | 10-11        | €cr        | Acid          | --   | 656         | 3108   | Pool  | RT              |
| 2151                 | Peru          | L 12 (1Q)     | 110 NL 670 EL   |          | Mansfield Oil, Inc.    | 1     | J. R. Dowalter      | 11-27        | €cr        | --            | --   | --          | 3213   | Pool  | RT              |
|                      |               |               |                 |          |                        |       |                     |              |            |               |      |             |        |       | Replaces P-2105 |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator                      | Well No. | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|----------------------|---------------|---------------|-----------------|-------------------------------|----------|-----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                      |               |               |                 |                               |          |                       |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| MORROW COUNTY (con.) |               |               |                 |                               |          |                       |            |              |            |               |      |             |        |       |                    |
| 2152                 | Lincoln       | S 23          | 235 SL 715 WL   | Cities Service Oil Co.        | 1        | Arthur Ewing          | 12-13      | €cr          | --         | --            | --   | 3143        | Pool   | RT    | Abd. loc.          |
| 2153                 | Harmony       | S 9           | 973 SL 562 EL   | SE Simmons Bros.              | 1        | Daisy Evans           | 12-21      | €cr          | --         | --            | --   | 3696        | NWC    | CT    |                    |
| 2154                 | Peru          | S 7 (2Q)      | 1180 NL 2200 WL | NW Kin-Ark Oil Co.            | 1        | Harold Davis          | 10-21      | €cr          | --         | --            | --   | 3160        | Pool   | RT    |                    |
| 2155                 | Westfield     | L 11 (1Q)     | 230 NL 230 WL   | Kin-Ark Oil Co.               | 1        | R. Hickson            | 10-9       | €cr          |            |               |      |             | FWC    | CT    |                    |
| 2156                 | Perry         | S 31          | 110 SL 278 EL   | NE Mid-Ohio O. & G. Devel.    | 1        | O. & A. Fellure       |            |              |            |               |      |             | FWC    | CT    |                    |
| 2157                 | Peru          | L 28 (3Q)     | 1295 NL 650 WL  | Kin-Ark Oil Co.               | 1        | A. & E. Lynn          | 10-16      | €cr          | Acid       | --            | 106  | 3040        | Pool   | RT    | Abd. loc.          |
| 2158                 | Harmony       | L 14 (3Q)     | 445 NL 1956 WL  | Algonquin Pet. Co.            | 1        | G. A. Rickman         | 10-23      | €cr          | --         | --            | --   | 3435        | Pool   | RT    |                    |
| 2159                 | Gilead        | S 27          | 668 SL 1850 WL  | SW El Paso Nat. Gas Prod.     | 1        | R. & D. Hinton        | 10-22      | €cr          | --         | --            | --   | 3263        | Pool   | RT    |                    |
| 2160                 | Peru          | S 6           | 185 NL 640 EL   | NE Kin-Ark Oil Co.            | 2        | H. & E. Davis         |            |              |            |               |      |             | Pool   | RT    |                    |
| 2161                 | Perry         | S 31          | 1995 NL 880 EL  | NE Thomas Burrey              | 2        | Henry Gilbert         | 11-27      | €cr          | --         | --            | --   | 3957        | FWC    | CT    |                    |
| 2162                 | Peru          | L 7 (4Q)      | 220 NL 1728 WL  | Ashland O. & R. Co.           | 1        | Bellamy-Lober-Trotten | 10-18      | €cr          | --         | --            | --   | 3275        | Pool   | RT    | Active             |
| 2163                 | S. Bloomfield | S 3           | 330 SL 230 EL   | SW Hoagland Dlg. Co.          | 1        | V. B. Herrod          | 10-21      | €cr          | --         | --            | --   | 3961        | Pool   | RT    |                    |
| 2164                 | Canaan        | S 30          | 300 NL 230 EL   | NW Hanson Oil Properties      | 1        | E. & S. Snyder        | 11-19      | €cr          | --         | --            | --   | 2991        | Pool   | CT    |                    |
| 2165                 | Gilead        | S 35-E        | 1658 SL 1050 EL | SE Fred Jackson               | 1        | W. Ashbaugh           | 10-22      | €cr          | --         | --            | --   | 3301        | Pool   | RT    |                    |
| 2166                 | Lincoln       | L 40 (4Q)     | 849 NL 795 WL   | Bill Allen & Assoc.           | 1        | C. & E. Smith         |            |              |            |               |      |             | Pool   | RT    |                    |
| 2167                 | Peru          | L 26 (3Q)     | 878 NL 1211 WL  | W. E. Shrider                 | 2        | M. & R. Schillinger   | 12-18      | €cr          | Acid       | --            | 300  | 3022        | Pool   | CT    | SWDW Active        |
| 2168                 | Peru          | L 11 (1Q)     | 578 SL 340 EL   | Lake Shore Pipe Line          | 1        | Albert High           | 10-29      | €cr          | Acid       | --            | 150  | 3369        | Pool   | RT    |                    |
| 2169                 | Peru          | L 16 (1Q)     | 280 SL 53 EL    | Lake Shore Pipe Line          | 1        | N. M. Replogle        | 10-19      | €cr          | --         | --            | --   | 3292        | Pool   | RT    |                    |
| 2170                 | Gilead        | S 11          | 596 NL 733 EL   | NW Pilgrim O. & G. Co.        | 3        | Joe Mosher            | 11-25      | €cr          | --         | --            | --   | 3316        | Pool   | CT    |                    |
| 2171                 | Perry         | S 7           | 682 SL 1778 EL  | SW Astro Pet. & Invest.       | 5        | H. LeMons             |            |              |            |               |      |             | FWC    | CT    |                    |
| 2172                 | Peru          | L 2 (1Q)      | 638 NL 780 WL   | Clinton Oil Co.               | 1        | J. & T. Dye           | 11-27      | €cr          | Acid       | --            | 70   | 3200        | Pool   | CT    | Abd. loc.          |
| 2173                 | Cardington    | S 23          | 1120 NL 120 WL  | SW Liberty Pet. Lease Co.     | 1-L      | L. F. Patterson       | 12-3       | €cr          | --         | --            | --   | 3236        | Pool   | CT    |                    |
| 2174                 | Bennington    | L 22 (3Q)     | 154 NL 3700 WL  | Preston Oil Co.               | 1        | J. A. Sheets          | 10-21      | €cr          | --         | --            | --   | 2729        | Pool   | RT    |                    |
| 2175                 | Lincoln       | L 35 (4Q)     | 359 NL 700 WL   | Keener Oil Co.                | 3        | E. & E. Fegley        | 10-23      | €cr          | Acid       | --            | 144  | 3135        | Pool   | RT    |                    |
| 2176                 | Lincoln       | L 28 (1Q)     | 935 NL 435 WL   | Moore; Lake Shore P. L.       | 1        | R. & N. Heimlich      |            |              |            |               |      |             | Pool   | RT    |                    |
| 2177                 | Peru          | L 5 (3Q)      | 280 SL 230 EL   | Petroleum Promotions          | 1        | J. M. White           | 10-30      | €cr          | --         | --            | --   | 3023        | Pool   | RT    | Replaced by P-2293 |
| 2178                 | Lincoln       | S 17          | 310 SL 1768 EL  | NE Kin-Ark Oil Co.            | 1        | R. & E. Ruggles       | 10-26      | €cr          | Acid       | --            | 188  | 3099        | Pool   | RT    |                    |
| 2179                 | Gilead        | S 12          | 230 SL 1300 WL  | SE L. B. Jackson; Petro-Lewis | 3        | M. Smith              | 10-27      | €cr          | --         | --            | --   | 3507        | Pool   | RT    |                    |
| 2180                 | Harmony       | L 2 (4Q)      | 933 NL 230 WL   | Hudson Ohio Oil Co.           | 1        | E. C. Gleason         | 11-1       | €cr          | --         | --            | --   | 3688        | FWC    | RT    |                    |
| 2181                 | Bennington    | S 17 (4Q)     | 663 SL 230 EL   | NE C. B. Earnest              | 2        | O. & R. Stokesbury    | 11-3       | €cr          | --         | --            | --   | 3656        | Out    | RT    |                    |
| 2182                 | Peru          | L 12 (3Q)     | 738 SL 752 WL   | W. E. Shrider                 | 1        | Bunker-Morgan         | 12-9       | €cr          | --         | --            | --   | 3103        | Pool   | CT    | Replaces P-1955    |
| 2183                 | Peru          | L 25 (3Q)     | 533 NL 250 WL   | W. E. Shrider                 | 1        | K. Westbrook          |            |              |            |               |      |             | Pool   | CT    |                    |
| 2184                 | Canaan        | S 2           | 837 NL 675 WL   | SW Branoco of Ohio, Inc.      | 1        | M. Cornwall           | 10-29      | €cr          | --         | --            | --   | 3136        | FWC    | RT    |                    |
| 2185                 | Gilead        | S 22-N        | 1577 NL 891 WL  | NW Ashland O. & R. Co.        | 1        | R. & V. Hartpence     | 11-1       | €cr          | --         | --            | --   | 3257        | Pool   | RT    |                    |
| 2186                 | Lincoln       | L 34 (4Q)     | 247 NL 908 EL   | W. E. Shrider                 | 1        | D. & E. Heading       | 10-31      | €cr          | Acid       | --            | 400  | 3200        | Pool   | RT    |                    |
| 2187                 | S. Bloomfield | S 8           | 1135 NL 1300 WL | NW Preston Oil Co.            | 1        | J. L. Richter         | 10-28      | €cr          | --         | --            | --   | 3969        | Pool   | RT    | Replaced by P-2293 |
| 2188                 | Peru          | L 5 (1Q)      | 553 NL 1349 EL  | Clinton Oil Co.               | 1        | L. & L. Lloyd         | 11-10      | €cr          | --         | --            | --   | 3306        | Pool   | CT    |                    |
| 2189                 | Cardington    | S 6           | 263 NL 1081 WL  | NW B. T. A.; J. Moore         | A-1      | A. M. Hord            | 11-11      | €cr          | --         | --            | --   | 2948        | Pool   | RT    |                    |
| 2190                 | Cardington    | S 15          | 1123 NL 683 WL  | NE B. T. A.; J. Moore         | A-1      | Grace Hartsook        | 11-2       | €cr          | --         | --            | --   | 3200        | Pool   | RT    |                    |
| 2191                 | Lincoln       | L 29 (4Q)     | 756 SL 256 WL   | B. T. A.; J. Moore            | 1        | N. L. Dunham          | 11-7       | €cr          | --         | --            | --   | 3293        | Pool   | RT    |                    |
| 2192                 | Gilead        | S 30          | 392 NL 1654 WL  | NW Ohio Cambrian Corp.        | 3        | C. & C. Shaw          | 12-3       | €cr          | --         | --            | --   | 3530        | Pool   | RT    | Replaces P-1955    |
| 2193                 | Gilead        | S 13          | 230 NL 230 WL   | NW Jackson & Roper            | 1        | E. Brollier           | 10-31      | €cr          | --         | --            | --   | 3310        | Pool   | RT    |                    |
| 2194                 | Gilead        | S 11          | 230 SL 330 EL   | SE Jackson & Roper            | A-1      | E. Brollier           | 11-17      | €cr          | --         | --            | --   | 3346        | Pool   | RT    |                    |
| 2195                 | Washington    | S 10          | 452 SL 360 WL   | NW Sands Oil Co.              | 1        | John Lepp             | 10-30      | €cr          | --         | --            | --   | 3259        | FWC    | RT    |                    |
| 2196                 | Gilead        | S 34          | 1085 SL 766 EL  | SW Thurlow Weed               | 3        | Hydraulic Press Mfg.  | 12-29      | €cr          | Acid       | --            | 100  | 3205        | Pool   | CT    |                    |



LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator | Well No. | Lease                 | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                     |
|----------------------|---------------|---------------|-----------------|----------|----------|-----------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-----------------------------|
|                      |               |               |                 |          |          |                       |            |              |            | MCFGPD        | BOPD |             |        |       |                             |
| MORROW COUNTY (con.) |               |               |                 |          |          |                       |            |              |            |               |      |             |        |       |                             |
| 2242                 | Gilead        | S 27          | 1087 NL 1726 EL |          | 1        | Atha & Rand           | 11-23      | €cr          | Acid       | 3500          | --   | 3277        | Pool   | RT    | Active                      |
| 2243                 | S. Bloomfield | S 9           | 1080 SL 1080 EL | SE       | 1        | Bert Hulse            |            |              |            |               |      |             | NWC    | CT    |                             |
| 2244                 | S. Bloomfield | S 15          | 88 NL 1539 WL   | SW       | 1        | M. & L. Martin        |            |              |            |               |      |             | Pool   | CT    |                             |
| 2245                 | Perry         | S 7           | 500 SL 500 WL   | SE       | 1        | V. & L. Merwine       | 12-16      | Snb          | --         | --            | --   | 1651        | Pool   | RT    |                             |
| 2246                 | Harmony       | L 6 (4Q)      | 230 SL 390 EL   |          | 2        | J. L. Evans           | 11-23      | €cr          | Acid       | --            | 240  | 3677        | Pool   | RT    |                             |
| 2247                 | Peru          | L 3 (4Q)      | 462 SL 330 WL   |          | 1        | D. & E. Counts        | 11-20      | €cr          | --         | --            | --   | 3156        | Pool   | RT    | Wtr. 400 BPD<br>Wtr. 50 BPD |
| 2248                 | Canaan        | S 9           | 330 SL 1185 WL  | NW       | 1        | J. W. Cox             | 11-23      | €cr          | --         | --            | --   | 3024        | Out    | RT    |                             |
| 2249                 | Peru          | L 3 (1Q)      | 1172 NL 581 WL  |          | 1        | R. & M. Hyatt         | 12-4       | €cr          | Acid       | --            | 75   | 3304        | Pool   | RT    |                             |
| 2250                 | Gilead        | S 15          | 422 NL 562 WL   | SE       | 4        | C. & V. Walton        | 11-20      | €cr          | Acid       | --            | 20   | 3189        | Pool   | RT    |                             |
| 2251                 | Lincoln       | L 27 (2Q-E)   | 125 NL 330 EL   |          | 2        | LaRoche-Conant        | 11-22      | €cr          | Acid       | --            | --   | 3443        | Pool   | RT    |                             |
| 2252                 | Harmony       | L 20 (2Q)     | 425 NL 1650 WL  |          | 1        | F. & B. Korody        |            |              |            |               |      |             | Pool   | CT    | Active                      |
| 2253                 | Gilead        | S 2-E         | 230 SL 400 WL   | SW       | 1-W      | Village of Mt. Gilead | 11-19      | €cr          | --         | --            | --   | 3315        | Pool   | RT    |                             |
| 2254                 | Gilead        | S 25          | 330 NL 330 EL   | NW       | 1        | Vernie Campbell       | 12-17      | €cr          | Acid       | 1000          | 660  | 3395        | Pool   | CT    |                             |
| 2255                 | Gilead        | S 23-E        | 800 NL 724 EL   | SE       | 1        | J. & B. Hershner      |            |              |            |               |      |             | Out    | RT    |                             |
| 2256                 | Peru          | L 14 (1Q)     | 1130 SL 237 WL  |          | 2        | R. C. Williams        | 11-23      | €cr          | Acid       | --            | 405  | 3156        | Pool   | RT    |                             |
| 2257                 | Peru          | L 17 (3Q)     | 457 NL 492 WL   |          | 1        | F. & B. Totten        | 11-29      | €cr          | --         | --            | --   | 3232        | Pool   | RT    | Active                      |
| 2258                 | Peru          | L 13 (4Q)     | 1285 SL 710 EL  |          | 2        | F. & G. House         | 12-2       | €cr          | Acid       | --            | 150  | 3181        | Pool   | RT    |                             |
| 2259                 | Lincoln       | L 17 (4Q)     | 188 NL 1384 WL  |          | 1        | A. & D. Ogle          | 12-9       | €cr          | --         | --            | --   | 3181        | Pool   | RT    |                             |
| 2260                 | Gilead        | S 10          | 781 NL 450 WL   | SW       | 1        | M. & H. Shaffer       | 11-30      | €cr          | --         | --            | --   | 3225        | Pool   | RT    |                             |
| 2261                 | Gilead        | S 10          | 1740 NL 890 WL  | NE       | 1-W      | E. M. Mosher          |            |              |            |               |      |             | Pool   | RT    |                             |
| 2262                 | Gilead        | S 30          | 1045 NL 385 WL  | NE       | 1        | C. & G. Galleher      | 12-1       | €cr          | --         | --            | --   | 3550        | Pool   | CT    | Active                      |
| 2263                 | Canaan        | S 15          | 2105 SL 835 EL  | SE       | 1        | R. & G. Ramsey        | 12-5       | €cr          | --         | --            | --   | 3200        | Out    | RT    |                             |
| 2264                 | Franklin      | S 5-E         | 230 SL 1850 EL  | SE       | 1        | George Beck           |            |              |            |               |      |             | Pool   | RT    |                             |
| 2265                 | Chester       | L 17 (1Q)     | 550 SL 507 WL   |          | 1        | W. & L. Ebersole      |            |              |            |               |      |             | NWC    | CT    |                             |
| 2266                 | Washington    | S 36          | 766 SL 557 EL   | SE       | 2-B      | A. E. Smith           | 12-1       | €cr          | Acid       | --            | --   | 3565        | FWC    | RT    |                             |
| 2267                 | Lincoln       | L 32 (4Q)     | 745 NL 230 WL   |          | 1        | D. E. Baker           | 12-2       | €cr          | Acid       | --            | 300  | 3250        | Pool   | RT    | Active                      |
| 2268                 | Canaan        | S 16          | 1555 NL 538 WL  | NW       | 1        | B. R. Moore           |            |              |            |               |      |             | Out    | RT    |                             |
| 2269                 | Peru          | L 10 (4Q)     | 495 SL 2224 WL  |          | A-1      | L. & M. Totten        |            |              |            |               |      |             | Pool   | RT    |                             |
| 2270                 | Peru          | L 7 (4Q)      | 510 SL 286 EL   |          | 1        | L. & M. Totten        |            |              |            |               |      |             | Pool   | RT    |                             |
| 2271                 | Bennington    | L 15 (2Q)     | 487 NL 1010 WL  |          | 1        | D. O. McCarty         | 12-22      | €cr          | --         | --            | --   | 3314        | Out    | CT    |                             |
| 2272                 | Lincoln       | L 25 (4Q)     | 400 SL 640 WL   |          | 1        | D. & N. Dunham        |            |              |            |               |      |             | Pool   | RT    | Active                      |
| 2273                 | Peru          | L 16 (1Q)     | 1129 SL 1354 WL |          | 1        | J. Royle              | 11-29      | €cr          | --         | --            | --   | 3242        | Pool   | RT    |                             |
| 2274                 | Gilead        | S 14          | 516 SL 300 WL   | SE       | 1        | F. & V. Frazier       |            |              |            |               |      |             | Pool   | RT    |                             |
| 2275                 | Harmony       | S 9           | 230 NL 1150 EL  | SE       | 2        | W. & D. Frey          |            |              |            |               |      |             | Pool   | CT    |                             |
| 2276                 | Peru          | S 6           | 230 NL 640 EL   | NE       | 1        | H. & E. Davis         |            |              |            |               |      |             | Pool   | CT    |                             |
| 2277                 | Lincoln       | L 36 (4Q)     | 240 SL 360 WL   |          | 1        | F. & J. Weaver        | 12-5       | €cr          | --         | --            | --   | 3259        | Pool   | RT    | Abd. loc.<br>Active         |
| 2278                 | Lincoln       | L 15 (1Q)     | 560 NL 1100 WL  |          | 1        | I. H. Packer(Edgell)  |            |              |            |               |      |             | Pool   | CT    |                             |
| 2279                 | Peru          | S 14          | 1280 SL 358 EL  |          | 1        | K. Bousher            |            |              |            |               |      |             | Pool   | CT    |                             |
| 2280                 | Gilead        | S 26-W        | 230 SL 220 EL   | NW       | 1        | C. E. Tracht          |            |              |            |               |      |             | Pool   | RT    |                             |
| 2281                 | N. Bloomfield | S 26          | 1321 SL 670 WL  | SW       | 1        | Marjorie Swartz       | 12-8       | €cr          | --         | --            | --   | 3900        | FWC    | RT    |                             |
| 2282                 | Lincoln       | L 29 (4Q)     | 0 SL 300 EL     |          | 1        | Walter-Cook           | 12-13      | €cr          | Acid       | --            | 290  | 3314        | Pool   | RT    | Active                      |
| 2283                 | Lincoln       | L 33 (1Q)     | 145 SL 461 WL   |          | 1        | V. & N. Crump         |            |              |            |               |      |             | Pool   | CT    |                             |
| 2284                 | Gilead        | S 14-S        | 457 SL 618 EL   | SW       | 1        | D. & S. Ferguson      |            |              |            |               |      |             | Pool   | CT    |                             |
| 2285                 | Lincoln       | L 34 (4Q)     | 230 SL 760 WL   |          | 1        | D. & E. Heading       | 12-23      | €cr          | Acid       | --            | 25   | 3190        | Pool   | RT    |                             |
| 2286                 | Canaan        | S 27          | 1850 SL 250 WL  | SW       | 1        | G. & I. Heffley       | 12-15      | €cr          | Acid       | --            | 600  | 3115        | Pool   | RT    |                             |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township      | Land Division | Location        | Operator      | Well No.                | Lease              | Date Comp.           | Deepest Unit | Type Comp. | Initial Prod. |        | Total Depth | Class.         | Tools | Remarks |
|----------------------|---------------|---------------|-----------------|---------------|-------------------------|--------------------|----------------------|--------------|------------|---------------|--------|-------------|----------------|-------|---------|
|                      |               |               |                 |               |                         |                    |                      |              |            | MCFGPD        | BOPD   |             |                |       |         |
| MORROW COUNTY (con.) |               |               |                 |               |                         |                    |                      |              |            |               |        |             |                |       |         |
| 2287                 | Congress      | S 19          | 230 SL 280 WL   | SE            | James R. Sharp          | 2                  | C. & C. Galleher     | 12-13        | €cr        | --            | --     | 3543        | FWC            | RT    | Active  |
| 2288                 | Lincoln       | L 35 (2Q)     | 381 SL 720 WL   |               | Belden & Blake & Co.    | 1                  | J. Stiner            | 12-11        | €cr        | --            | --     | 3370        | Pool           | RT    |         |
| 2289                 | Washington    | S 36          | 913 NL 1058 WL  | SW            | Devonian G. & O. Co.    | 1                  | Daniel Snyder        |              |            |               |        |             | FWC            | RT    |         |
| 2290                 | N. Bloomfield | S 23          | 2405 NL 775 WL  | NW            | Great Basin Pet. Co.    | 1                  | L. & J. Robinson     |              |            |               |        |             | Pool           | RT    |         |
| 2291                 | Bennington    | L 35 (3Q)     | 554 NL 587 EL   |               | Keener Oil Co.          | 1                  | H. & E. Fuller       | 12-16        | €cr        | --            | --     | 3485        | Pool           | CT    |         |
| 2292                 | Franklin      | S 8-E         | 790 NL 690 EL   | NE            | Michael T. Cowen        | 3                  | O. & H. Frederick    |              |            |               |        |             | Pool           | RT    | Active  |
| 2293                 | Peru          | L 25 (3Q)     | 533 NL 250 EL   |               | W. E. Shrider           | 1                  | K. Westbrook         |              |            |               |        |             | Pool           | CT    | Active  |
| 2294                 | Bennington    | L 35 (1Q)     | 814 SL 905 WL   |               | Allen Guiberson         | 1                  | C. & G. Thomas       |              |            |               |        |             | Pool           | RT    | Active  |
| 2295                 | Perry         | S 18          | 500 NL 600 EL   | NW            | Sohio Pet. Co.          | 1                  | E. & E. Eash         |              |            |               |        |             | Pool           | CT    | Active  |
| 2296                 | Gilead        | S 22-S        | 453 SL 230 EL   | NE            | Ashland O. & R. Co.     | A-1                | E. Curtis            | 12-24        | €cr        | --            | --     | 3375        | Pool           | RT    |         |
| 2297                 | Lincoln       | L 32 (4Q)     | 1547 SL 230 EL  | NE            | Ashland O. & R. Co.     | 2                  | D. & E. Baker        | 12-18        | €cr        | --            | --     | 3275        | Pool           | RT    | Active  |
| 2298                 | Lincoln       | L 32 (4Q)     | 65 SL 320 EL    |               | E. R. Thomas            | 1                  | D. & J. Lorimer      |              |            |               |        |             | Pool           | CT    |         |
| 2299                 | Bennington    | S 19          | 1288 SL 817 WL  | SW            | H. A. Bertuleit         | 1                  | W. & R. Snider       | 12-30        | €cr        | --            | --     | 3793        | Pool           | RT    |         |
| 2300                 | Franklin      | S 4           | 242 SL 1312 WL  | SW            | C. Day, Keillor & Clark | 2                  | J. & M. Wolfinger    |              |            |               |        |             | FWC            | RT    |         |
| 2301                 | Gilead        | S 31          | 713 SL 1110 EL  | NW            | Keillor & Clark         | 1                  | W. & F. McClelland   |              |            |               |        |             | Out            | CT    |         |
| 2302                 | Gilead        | S 19          | 230 SL 255 EL   | SW            | Royal O. & G. Corp.     | 1-A                | Edward Shaw          |              |            |               |        |             | Pool           | CT    | Active  |
| 2303                 | Gilead        | S 27          | 1020 SL 1840 EL | NE            | Royal O. & G. Corp.     | 3                  | Lawrence Miller      |              |            |               |        |             | Pool           | CT    | Active  |
| 2304                 | Peru          | L 22 (3Q)     | 771 NL 268 EL   |               | W. E. Shrider           | 1                  | Flemming-Miley "2"   |              |            |               |        |             | Pool           | RT    | Active  |
| 2305                 | Gilead        | S 14          | 275 SL 1065 EL  | NW            | Charles J. Seibert      | 1                  | Mollie Nunamaker     |              |            |               |        |             | Pool           | CT    | Active  |
| 2306                 | S. Bloomfield | S 12          | 230 NL 230 EL   | SW            | Juniper O. & G. Co.     | 1                  | M. O. Harris         |              |            |               |        |             | FWC            | RT    | Active  |
| 2307                 | Chester       | L 6 (2Q)      | 300 SL 1413 WL  |               | United Dlg. Co.         | 1                  | H. & M. Whitney      |              |            |               |        |             | Pool           | RT    | Active  |
| 2308                 | Lincoln       | L 33 (4Q)     | 336 NL 230 EL   |               | W. E. Shrider           | 1                  | H. Kinney            |              |            |               |        |             | Pool           | RT    | Active  |
| 2309                 | Gilead        | S 31          | 1077 SL 1040 WL | NW            | Blair & Morse, Inc.     | 4                  | Morrow Co. Infirmary |              |            |               |        |             | Out            | RT    | Active  |
| 2310                 | Franklin      | S 10          | 230 NL 590 WL   | SE            | Sohio Pet. Co.          | 1                  | J. & J. Waite        |              |            |               |        |             | NWC            | RT    | Active  |
| 2311                 | Franklin      | S 8-E         | 520 SL 230 WL   | NW            | Sohio Pet. Co.          | 1                  | Arthur Beck          |              |            |               |        |             | Pool           | RT    | Active  |
| 2312                 | Peru          | L 8 (4Q)      | 280 NL 1118 EL  |               | Lake Shore Pipe Line    | 1                  | S. & L. Ferko        | 12-22        | €cr        | --            | --     | 3286        | Pool           | RT    | Active  |
| 2313                 | Canaan        | S 7           | 650 NL 705 WL   | SE            | Hadson Ohio Oil Co.     | 1                  | Hugh McKinstry       | 12-30        | €cr        | --            | --     | 3020        | Pool           | RT    |         |
| 2314                 | Bennington    | L 11 (2Q)     | 825 SL 322 WL   |               | Simmons Bros.           | 1                  | Hay-Walker           | 12-30        | €cr        | --            | --     | 3400        | NWC            | RT    |         |
| 2315                 | Perry         | S 7           | 330 SL 2150 WL  |               | Brinkerhoff Dlg. Co.    | 1                  | E. R. Wiseman        |              |            |               |        |             | FWC            | RT    |         |
| 2316                 | Lincoln       | S 13 (3Q)     | 1010 SL 1203 EL |               | Kin-Ark Oil Co.         | 1-B                | Dominy-Howard        | 12-31        | €cr        | --            | --     | 3156        | Pool           | RT    |         |
| 2317                 | Harmony       | L 1 (3Q)      | 1000 SL 1000 EL |               | Buckeye O. & G. Co.     | 2                  | Ralph Van Auker      |              |            |               |        |             | Pool           | RT    | Active  |
| 2318                 | Canaan        | S 18          | 416 SL 1118 EL  | SE            | Spindale O. & G. Co.    | 1                  | H. Meade             |              |            |               |        |             | Pool           | CT    | Active  |
| 2319                 | Lincoln       | L 22 (3Q)     | 427 SL 998 WL   |               | Ashland O. & R. Co.     | 1                  | Fanny Gerken         |              |            |               |        |             | Out            | RT    | Active  |
| 2320                 | Harmony       | L 26 (4Q)     | 605 SL 1440 EL  |               | R. O. Leighton          | 3                  | W. & T. Lyons        |              |            |               |        |             | Pool           | CT    | Active  |
| 2321                 | Peru          | L 21 (3Q)     | 344 SL 1198 WL  |               | W. E. Shrider           | 1                  | Cummings-Morgan      |              |            |               |        |             | Pool           | CT    | Active  |
| 2322                 | Canaan        | S 6           | 230 SL 659 EL   | NE            | Affeld-Falese Oil Co.   | 1                  | S. A. Baker          |              |            |               |        |             | Pool           | RT    | Active  |
| 2323                 | Washington    | S 1           | 271 NL 230 EL   | NE            | Affeld-Falese Oil Co.   | 1-C                | A. & F. Smith        |              |            |               |        |             | Pool           | RT    | Active  |
| 2324                 | S. Bloomfield | S 9           | 1440 NL 955 EL  | SW            | Juniper O. & G. Co.     | 1                  | Mitchell Robinson    |              |            |               |        |             | Out            | RT    | Active  |
| 2325                 | Lincoln       | S 24          | 330 SL 330 WL   | SW            | R. & S. Oil Co.         | 1                  | Amy Reed             |              |            |               |        |             | Pool           | CT    | Active  |
| 2326                 | Lincoln       | L 25 (4Q)     | 240 NL 605 EL   |               | Moore; Lake Shore P. L. | 1                  | Hugh McKinstry       |              |            |               |        |             | Pool           | RT    | Active  |
| 2327                 | Lincoln       | L 23 (1Q)     | 330 SL 300 WL   |               | Moore; Lake Shore P. L. | 2                  | R. & F. Henry        |              |            |               |        |             | Pool           | RT    | Active  |
| 2328                 | Bennington    | L 9 (2Q)      | 230 NL 770 WL   |               | Clinton Oil Co.         | 1                  | Counts-Mason         |              |            |               |        |             | NWC            | RT    | Active  |
| SUMMARY              |               |               | GAS-11 OIL-411  | COMBINATION-9 |                         | DRY-911 TOTAL-1342 |                      |              |            |               | 33,064 | 96,946      | 4,426,780 FEET |       |         |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township    | Land Division | Location           | Operator                                 | Well No. | Lease               | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |     | Total Depth | Class. | Tools | Remarks                       |
|----------------------|-------------|---------------|--------------------|--|----------|---------------------|------------|--------------|------------|---------------|-----|-------------|--------|-------|-------------------------------|
| MORROW COUNTY (con.) |             |               |                    |  |          |                     |            |              |            |               |     |             |        |       |                               |
| OLD WELL ABANDONED   |             |               |                    |  |          |                     |            |              |            |               |     |             |        |       |                               |
| 40                   | Bennington  | S 22          | 1650 SL 660 EL SE  | Brannon & Baird                          | 4        | N. J. Monk          | 1962       | -Ccr         | Acid       | --            | 50  | 3755        | Pool   | CT    | Abd. 10-8                     |
|                      |             | SUMMARY       | ABANDONED-1        |  |          |                     |            |              |            |               |     |             |        |       |                               |
| DISPOSAL WELLS       |             |               |                    |  |          |                     |            |              |            |               |     |             |        |       |                               |
| 1 (1982)             | Canaan      | S 34          | 1385 NL 765 EL NE  | Ashland O. & R. Co.                      | 2        | E. T. Bush          | 8-28       | -Ccr         | Acid       | --            | 48  | 3150        | Pool   | RT    | Wtr. 168 BPD SWDW Permit 11-4 |
| 2 (307)              | Gilead      | S 15-S        | 520 SL 1220 WL SE  | Pilgrim O. & G. Co.                      | 1        | J. E. Lewis         | 1963       | -Ccr         | --         | --            | --  | 3245        | Pool   | RT    | SWDW Permit 11-4              |
| 3 (486)              | Gilead      | S 15          | 566 SL 300 WL SE   | Don Baines Dlg. Co.                      | 1        | J. E. Lewis         | 1963       | -Ccr         | Acid       | --            | 450 | 3226        | Pool   | RT    | SWDW Permit 12-10             |
| 4 (1938)             | Canaan      | S 18          | 900 NL 230 EL SE   | Ashland O. & R. Co.                      | 2        | H. & M. Hill        | 8-10       | -Ccr         | Acid       | --            | --  | 3021        | Out    | RT    | SWDW Permit 12-23             |
| 5 (1340)             | Cardington  | S 22          | 300 NL 525 WL NE   | General Oil Co. of Ohio (Investment Oil) | 7        | N. Y. Central R. R. | 5-6        | -Ccr         | --         | --            | --  | 3100        | Pool   | CT    | SWDW Permit 12-31             |
|                      |             | SUMMARY       | DISPOSAL-5         |  |          |                     |            |              |            |               |     |             |        |       |                               |
| MUSKINGUM COUNTY     |             |               |                    |  |          |                     |            |              |            |               |     |             |        |       |                               |
| 1770                 | Salt Creek  | S 8           | 775 SL 828 WL SE   | Petroc Co.                               | 1        | Harold Jackman      | 1-20       | Sal          | --         | --            | --  | 4281        | Pool   | CT    |                               |
| 1777                 | Jackson     | L 4           | 590 NL 670 EL      | Oxford Oil Co.                           | 1        | Beatrice Fairley    | 1-6        | Sal          | Frac       | --            | 20  | 3272        | Pool   | CT    |                               |
| 1778                 | Hopewell    | S 15-N        | 405 SL 470 WL SE   | W. J. Kammann & Assoc.                   | 1        | M. L. Bates         | 1963       | Sal          | Frac       | --            | 35  | 3297        | Pool   | CT    |                               |
| 1779                 | Hopewell    | S 17          | 400 NL 660 WL NW   | Oxford Oil Co.                           | 2        | Ethel Osburn        | 1963       | Sal          | Frac       | 500           | 15  | 3285        | Pool   | CT    |                               |
| 1780                 | Jackson     | L 1           | 983 SL 56 EL       | S. W. Bardill                            | 1-A      | J. & M. Jordan      | 1-25       | Sal          | Frac       | 100           | 40  | 3493        | Pool   | CT    |                               |
| 1781                 | Hopewell    | S 5-S         | 1025 SL 400 EL NW  | Irvin Producing Co.                      | 2        | Vernon Iden         | 2-15       | Sal          | Frac       | --            | 10  | 3223        | Pool   | CT    |                               |
| 1782                 | Jackson     | S 3           | 990 NL 220 EL SW   | Hoosier Oil Co.                          | 2        | Frank Wolford       | 2-15       | Sal          | Frac       | --            | 190 | 3090        | Pool   | CT    |                               |
| 1783                 | Hopewell    | S 15-S        | 455 NL 400 EL NE   | W. J. Kammann & Assoc.                   | 1        | P. W. Rambo         | 2-24       | Sal          | Frac       | 550           | --  | 3311        | Pool   | CT    |                               |
| 1784                 | Hopewell    | L 24          | 450 SL 680 EL      | W. J. Kammann & Assoc.                   | 1        | L. R. Gard          | 2-9        | Sal          | Frac       | 1500          | --  | 3348        | Pool   | CT    |                               |
| 1785                 | Hopewell    | S 8-S         | 1420 SL 1320 WL SW | Thompson Oil Co.                         | 2        | R. & M. Knighton    | 3-12       | Sal          | Frac       | 3000          | 100 | 3289        | Pool   | CT    |                               |
| 1786                 | Salt Creek  | S 36          | 670 SL 300 EL SW   | Petroc Co.                               | 1-A      | Lela Beatty         | 5-28       | Sal          | Frac       | 1000          | 15  | 4503        | Pool   | CT    |                               |
| 1787                 | Hopewell    | S 18-S        | 415 NL 600 EL NE   | Oxford Oil Co.                           | 2        | Bertha Lampton      | 4-29       | Sal          | Frac       | 500           | 30  | 3256        | Pool   | CT    |                               |
| 1788                 | Hopewell    | L 38          | 120 NL 600 EL      | Oxford Oil Co.                           | 3        | Emma McKenzie       | 5-20       | Sal          | Frac       | 200           | 25  | 3264        | Pool   | CT    |                               |
| 1789                 | Hopewell    | S 7-S         | 600 NL 537 WL NE   | Oxford Oil Co.                           | 1        | Anna McQuigg        | 6-9        | Sal          | Frac       | 200           | 25  | 3144        | Pool   | CT    |                               |
| 1790                 | Jackson     | S 5           | 828 NL 375 WL SE   | Petroc Co.                               | 1-A      | C. & L. Gardner     | 9-10       | Sal          | Frac       | --            | 25  | 3123        | Pool   | CT    | Gas 84 MCF                    |
| 1791                 | Rich Hill   | S 11          | 990 NL 330 WL NW   | Beasley-Sharp, Inc.                      | 1        | Ohio Power(J. Tom)  |            |              |            |               |     |             | Pool   | CT    | Abd. loc.                     |
| 1792                 | Rich Hill   | S 25          | 330 SL 330 WL NW   | Beasley-Sharp, Inc.                      | 1        | Ohio Power Co.      | 12-22      | Sal          | Frac       | 200           | 20  | 4957        | FWC    | CT    |                               |
| 1793                 | Hopewell    | S 2           | 750 SL 2519 WL SW  | Thompson Oil Co.                         | 1        | Frank Craig         | 6-16       | Sal          | Frac       | 232           | 25  | 3396        | Pool   | CT    |                               |
| 1794                 | Jackson     | S 3           | 500 NL 400 EL NW   | W. E. Shrider                            | 1        | F. & M. Wolford     | 6-11       | Sal          | Frac       | --            | 25  | 3171        | Pool   | CT    |                               |
| 1795                 | Hopewell    | S 5-S         | 995 NL 500 WL SW   | Oxford Oil Co.                           | 2        | Cletus Iden         | 7-6        | Sal          | Frac       | 250           | 10  | 3220        | Pool   | CT    |                               |
| 1796                 | Hopewell    | S 6-S         | 660 SL 530 WL SW   | Oxford Oil Co.                           | 1        | Harkness            | 7-21       | Sal          | Frac       | 200           | 20  | 3062        | Pool   | CT    |                               |
| 1797                 | Hopewell    | S 6-S         | 660 SL 500 EL SW   | Oxford Oil Co.                           | 2        | Harkness            | 8-31       | Sal          | Frac       | 1200          | --  | 3127        | Pool   | CT    |                               |
| 1798                 | Hopewell    | S 14-S        | 1220 NL 1285 WL NW | Oxford Oil Co.                           | 1        | H. D. Hill          | 8-10       | Sal          | Frac       | 2000          | --  | 3442        | Pool   | CT    |                               |
| 1799                 | Brush Creek | S 9           | 680 NL 530 EL SE   | Ohio Fuel Gas Co.                        | 1        | Clara Dozer         |            |              |            |               |     |             | Pool   | CT    | OW Abd.                       |
| 1800                 | Hopewell    | L 25          | 500 NL 1500 EL     | Oxford Oil Co.                           | 2        | D. R. Smith         | 8-20       | Sal          | Frac       | 900           | 3   | 3253        | Pool   | CT    |                               |



## LIST OF OPERATIONS DURING 1964

| Permit Number           | Township    | Land Division | Location         |       | Operator               | Well No. | Lease                 | Date Comp.   | Deepest Unit | Type Comp. | Initial Prod. |         | Total Depth  | Class.       | Tools    | Remarks            |
|-------------------------|-------------|---------------|------------------|-------|------------------------|----------|-----------------------|--------------|--------------|------------|---------------|---------|--------------|--------------|----------|--------------------|
|                         |             |               |                  |       |                        |          |                       |              |              |            | MCFGPD        | BOPD    |              |              |          |                    |
| MUSKINGUM COUNTY (con.) |             |               |                  |       |                        |          |                       |              |              |            |               |         |              |              |          |                    |
| 1801                    | Hopewell    | S 16          | 1250 SL 1410 EL  | SE    | Oxford Oil Co.         | 2        | M. A. Campbell        | 10-13        | Sal          | Frac       | 950           | --      | 3222         | Pool         | CT       | Gas 30 MCF         |
| 1802                    | Hopewell    | S 7           | 450 SL 1490 EL   | SE    | Thompson Oil Co.       | 2        | Porter Bros.          | 12-?         | Sal          | Frac       | 5000          | 10      | 3167         | Pool         | CT       |                    |
| 1803                    | Hopewell    | L 27          | 400 NL 400 WL    |       | Oxford Oil Co.         | 1        | Kenneth Osborn        | 11-16        | Sal          | Frac       | --            | 30      | 3307         | Pool         | CT       |                    |
| 1804                    | Hopewell    | S 9           | 460 SL 1380 EL   | NW    | Oxford Oil Co.         | 1        | C. O. Lampton         | 11-25        | Sal          | Frac       | 150           | 40      | 3281         | Pool         | CT       |                    |
| 1805                    | Salt Creek  | S 36          | 950 SL 1005 EL   | SE    | Petroc Co.             | 2        | Lela Beatty           | 12-31        | Sal          | Frac       | 400           | --      | 4500         | Pool         | CT       |                    |
| 1806                    | Hopewell    | S 2           | 400 SL 2560 WL   | SW    | Thompson Oil Co.       | 2        | Frank Craig           | 12-?         | Sal          | Frac       | 200           | --      | 3438         | Pool         | CT       | Active             |
| 1807                    | Clay        | S 1           | 1008 NL 76 EL    | SW    | Beisser O. & G. Co.    | 1        | Roy Swingle           |              |              |            |               |         |              | Pool         | CT       |                    |
| 1808                    | Hopewell    | S 11-S        | 350 NL 450 WL    | NE    | Henry Hullhorst, Inc.  | 1        | D. A. Mahaney         |              |              |            |               |         |              | Pool         | CT       |                    |
| 1809                    | Hopewell    | S 15-N        | 0 NL 1499 WL     | NE    | Hartley-Gumbel-Lhormer | 1        | Grimes & Jackson      |              |              |            |               |         |              | Pool         | CT       |                    |
| 1810                    | Blue Rock   | S 2           | 730 NL 901 WL    | NE    | Petroc Co.             | 1        | Dalton Wilkins        |              |              |            |               |         |              | Pool         | CT       |                    |
| 1811                    | Clay        | S 1           | 818 NL 384 WL    | SE    | Beisser O. & G. Co.    | 2        | Roy Swingle           |              |              |            |               |         |              | Pool         | CT       | Active             |
| 1812                    | Blue Rock   | S 1           | 285 NL 350 WL    | NE    | Petroc Co.             | 3        | Lela Beatty           |              |              |            |               |         |              | Pool         | CT       | Active             |
| 1813                    | Harrison    | S 17          | 70 SL 780 WL     | NE    | Petroc Co.             | 3-A      | B. Fitz               |              |              |            |               |         |              | Pool         | CT       | Active             |
| SUMMARY                 |             |               | GAS-7            | OIL-7 | COMBINATION-14         |          | DRY-1                 | TOTAL-29     |              |            | 18,737        | 743     | 99,722       | FEET         |          |                    |
| OLD WELL DRILLED DEEPER |             |               |                  |       |                        |          |                       |              |              |            |               |         |              |              |          |                    |
| 1711                    | Monroe      | S 11          | 156 SL 566 EL    | NW    | C. B. Waters           | 3        | R. S. Blackford       | 1962<br>5-22 | Mbe<br>Dor?  | Shot<br>-- | 5<br>--       | 3<br>-- | 1248<br>3365 | Pool<br>Pool | CT<br>CT | New footage-2, 117 |
| SUMMARY                 |             |               | DRILLED DEEPER-1 |       |                        |          |                       |              |              |            | 0             | 0       | 2,117        | FEET         |          |                    |
| OLD WELLS PLUGGED BACK  |             |               |                  |       |                        |          |                       |              |              |            |               |         |              |              |          |                    |
| 124                     | Harrison    | S 17          | 1820 NL 2940 WL  | NE    | Atha Oil Co.           | 1        | C. C. Sherman         | 1939         | Sal          | ?          | 60            | 20      | 4128         | Pool         | CT       | Abd. 9-1957        |
| 138                     | Harrison    | S 17          | 1730 NL 1400 WL  | NE    | Atha Oil Co.           | 1        | B. G. Fitz            | 3-27         | Mbe          | Frac       | --            | 10      | 1075         | Pool         | CT       | Gas 25 MCF         |
|                         |             |               |                  |       |                        | 2        | C. C. Sherman         | 1940         | Sal          | ?          | ?             | ?       | 4138         | Pool         | CT       | Abd. 9-1956        |
| 194                     | Harrison    | S 17          | 1000 SL 750 WL   | NE    | Atha Oil Co.           | 2        | B. G. Fitz            | 4-14         | Mbe          | Frac       | --            | 10      | 1062         | Pool         | CT       | Gas 20 MCF         |
|                         |             |               |                  |       |                        | 3        | C. C. Sherman         | 1941         | Sal          | ?          | --            | ?       | 4118         | Pool         | CT       | Abd. 9-1957        |
| SUMMARY                 |             |               | PLUGGED BACK-2   |       |                        |          |                       |              |              |            | 0             | 20      | 0            | FEET         |          | Abd. 10-22         |
| OLD WELLS ABANDONED     |             |               |                  |       |                        |          |                       |              |              |            |               |         |              |              |          |                    |
| 16                      | Washington  | (4Q)          | 1680 SL 5080 EL  | Twp.  | Ohio Fuel Gas Co.      | 1        | W. L. Heil(L. Smith)  | 1936         | Sal          | ?          | ?             | --      | 4071         | Pool         | CT       | Abd. 6-9           |
| 24-A-3                  | Brush Creek | S 5           | 525 NL 150 WL    | NE    | Brush Creek O. & G.    | 3        | A. Jenkins(J. Zellar) | 1914         | Mbe          | ?          | --            | ?       | 1118         | Pool         | CT       | Abd. 2-7           |
| 25-A-9                  | Brush Creek | S 27          | 1200 SL 1000 WL  | SE    | E. V. Zeller           | 9        | L. H. Swingle         | 1912         | Mbe          | Shot       | ?             | ?       | 1035         | Pool         | CT       | Abd. 1-29          |
| 56-A-3                  | Licking     | S 25 (2Q)     | 1000 NL 3650 WL  |       | Pure Oil Co.           | 3        | J. F. Stitt           | 1920         | Sal          | ?          | ?             | ?       | 3003         | Pool         | CT       | Abd. 1-3           |
| 78-A-2                  | Brush Creek | S 5           | 1500 NL 180 WL   | NE    | Neely-Clover Co.       | 2        | M. L. Boyd            | ?            | Mbe          | ?          | ?             | ?       | 1150         | Pool         | CT       | Abd. 2-4           |
| 106-A-10                | Jackson     | S 5           | 380 NL 1000 WL   | SW    | Pure Oil Co.           | 10       | George Crawford       | 1929         | Sal          | ?          | ?             | ?       | 2910         | Pool         | CT       | Abd. 3-18          |
| 112-A-1                 | Jackson     | S 6           | 250 SL 300 WL    | SE    | Pure Oil Co.           | 1        | F. H. McKee           | 1930         | Sal          | Shot       | --            | 53      | 3114         | Pool         | CT       | Abd. 8-22          |
| 112-A-2                 | Jackson     | S 6           | 550 NL 720 EL    | NE    | Pure Oil Co.           | 2        | F. H. McKee           | 1930         | Sal          | Shot       | --            | 94      | 3129         | Pool         | CT       | Abd. 12-1          |
| 113-A-4                 | Jackson     | S 6           | 550 SL 450 WL    | NE    | Pure Oil Co.           | 4        | Lloyd McKee           | 1930         | Sal          | Shot       | --            | 32      | 3055         | Pool         | CT       | Abd. 11-17         |
| 118-A-2                 | Jackson     | S 6           | 1080 SL 340 EL   | NE    | Sabo-Longfellow(Pure)  | 2        | Emmet Sheppard        | 1934         | Sal          | Shot       | --            | ?       | 3225         | Pool         | CT       | Abd. 12-31         |

## LIST OF OPERATIONS DURING 1964

| Permit Number           | Township    | Land Division | Location                                 | Operator | Well No.                    | Lease | Date Comp.            | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |            |
|-------------------------|-------------|---------------|--|----------|-----------------------------|-------|-----------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|------------|
|                         |             |               |  |          |                             |       |                       |              |            | MCFGPD        | BOPD |             |        |       |         |            |
| MUSKINGUM COUNTY (con.) |             |               |  |          |                             |       |                       |              |            |               |      |             |        |       |         |            |
| 139                     | Newton      | S 13-W        | 1265 NL 1610 WL                          | NW       | Oxford Oil(Atha Oil)        | 1     | O. A. Krafft          | 1940         | Sal        | ?             | 1250 | --          | 3461   | Pool  | CT      | Abd. 3-25  |
| 145                     | Harrison    | S 6           | 620 NL 800 WL                            | SE       | Buckeye Supply(Gas Prod.)   | 1     | Davis-Campbell        | 1940         | Sal        | ?             | ?    | --          | 4267   | Pool  | CT      | Abd. 10-26 |
| 160                     | Brush Creek | S 15-S        | 697 NL 300 EL                            | SW       | Ohio Fuel Gas Co.           | 1     | M. & K. McLaughlin    | 1940         | Sal        | ?             | 4120 | --          | 4011   | Pool  | CT      | Abd. 1-29  |
| 215-A-1                 | Brush Creek | S 10          | 320 SL 50 WL                             | SW       | Ohio Fuel Gas Co.           | 1     | C. & F. Dozer         | 1935         | Sal        | ?             | ?    | --          | 4155   | Pool  | CT      | Abd. 8-3   |
| 217                     | Harrison    | S 14          | 600 SL 690 EL                            | NW       | W. F. Glass(Pure Oil)       | 1     | Clarence Ribble       | 1941         | Sal        | ?             | 1600 | --          | 4201   | Pool  | CT      | Abd. 12-17 |
| 219-A-1                 | Brush Creek | S 9-S         | 620 NL 600 EL                            | NE       | Ohio Fuel Gas Co.           | 1     | Swingle-Wade          | 1934         | Sal        | ?             | ?    | --          | 4163   | Pool  | CT      | Abd. 2-11  |
| 240                     | Harrison    | S 14          | 615 NL 610 WL                            | SE       | W. F. Glass(Pure Oil)       | 2     | Clarence Ribble       | 1942         | Sal        | ?             | 740  | --          | 4283   | Pool  | CT      | Abd. 11-23 |
| 289                     | Salt Creek  | S 5           | 629 SL 1320 WL                           | NW       | Ohio Fuel Gas Co.           | 2     | Mary Powdson          | 1942         | Sal        | ?             | 430  | --          | 4120   | Pool  | CT      | Abd. 5-18  |
| 320                     | Wayne       | S 2-S         | 660 NL 875 WL                            | NE       | Ohio Fuel Gas Co.           | 1     | Mike Beecher          | 1943         | Sal        | Shot          | 1330 | --          | 3954   | Pool  | CT      | Abd. 10-27 |
| 366-A-1                 | Falls       | (1Q)          | 310 NL 330 EL                            | Farm     | Ohio Fuel Gas Co.           | 1     | W. H. Atha(G. Fergus) | 1929         | Sal        | ?             | 1096 | --          | 3685   | Pool  | CT      | Abd. 7-10  |
| 393-A-1                 | Washington  | (4Q)          | 800 N of US 40<br>4500 E of County Rd. 5 |          | G. E. Jewell(Ohio Fuel)     | 1     | Watson-Hutchinson     | 1929         | Sal        | ?             | ?    | ?           | ?      | Pool  | CT      | Abd. 11-9  |
| 480                     | Wayne       | S 8-S         | 595 NL 1640 EL                           | NE       | Atha Realty Co.             | 1     | E. R. Elkington       | 1945         | Sal        | ?             | 4225 | --          | 3976   | Pool  | CT      | Abd. 7-22  |
| 514-A-1                 | Washington  | L 15          | 860 NL 2080 EL                           |          | Ohio Fuel Gas Co.           | 1     | John Mahaney          | 1930         | Sal        | ?             | 789  | --          | 3733   | Pool  | CT      | Abd. 5-28  |
| 522                     | Wayne       | S 9-S         | 1526 NL 330 WL                           | NW       | Ohio Fuel Gas Co.           | 1     | H. D. Eppley          | 1945         | Sal        | ?             | ?    | ?           | 4000   | Pool  | CT      | Abd. 10-9  |
| 532-A-1                 | Washington  | (4Q)          | 3020 SL 6000 EL                          | Twp.     | Ohio Fuel Gas Co.           | 1     | B. F. Slack           | 1931         | Sal        | Shot          | 260  | --          | 4058   | Pool  | CT      | Abd. 6-20  |
| 594                     | Wayne       | S 8-S         | 1440 NL 1050 EL                          | NE       | Natol Pet. (H. K. Porter)   | 1     | J. & F. Harsch        | 1945         | Sal        | Shot          | 1416 | --          | 4006   | Pool  | CT      | Abd. 4-23  |
| 654                     | Wayne       | S 9           | 660 NL 481 WL                            | NW       | Ohio Fuel Gas Co.           | 2     | Lynn Wilson           | 1946         | Sal        | Shot          | 125  | --          | 4028   | Pool  | CT      | Abd. 5-29  |
| 754                     | Jackson     | S 8           | 330 SL 1320 WL                           | NE       | W. F. Glass(Pure Oil)       | 2     | Max Frazier           | 1946         | Sal        | ?             | --   | ?           | 3284   | Pool  | CT      | Abd. 12-28 |
| 849                     | Brush Creek | S 14          | 684 NL 785 WL                            | SW       | Salem Pet. (Nat'l. G. & O.) | 1     | N. W. Leland          | 1947         | Sal        | Shot          | 532  | --          | 3735   | Pool  | CT      | Abd. 5-1   |
| 990                     | Salt Creek  | S 15          | 1055 SL 1285 EL                          | SW       | National G. & O. Corp.      | 35    | U. S. A.              | 1948         | Sal        | Shot          | 670  | 50          | 4282   | Pool  | CT      | Abd. 8-10  |
| 991                     | Brush Creek | S 18          | 336 SL 471 EL                            | SE       | Natol Pet. (Fritz O. & G.)  | 1     | L. F. Swingle         | 1948         | Sal        | Shot          | 719  | --          | 4094   | Pool  | CT      | Abd. 5-8   |
| 1028                    | Blue Rock   | S 4           | 412 NL 622 EL                            | SE       | National G. & O. Corp.      | 2     | J. C. Harper          | 1948         | Sal        | Shot          | 94   | 43          | 4303   | Pool  | CT      | Abd. 10-14 |
| 1124                    | Newton      | S 7           | 1370 NL 1400 WL                          | SW       | National G. & O. Corp.      | 5     | T. G. Bagley          | 1949         | Sal        | Shot          | 281  | 25          | 3350   | Pool  | CT      | Abd. 5-7   |
| 1226                    | Newton      | S 23          | 267 SL 940 EL                            | SW       | Ohio Fuel Gas Co.           | 1     | Leora Hibbs           | 1952         | Sal        | Shot          | 54   | --          | 3733   | Pool  | CT      | Abd. 4-24  |
| 1276                    | Licking     | L 3 (3Q)      | 330 SL 330 WL                            |          | Oxford Oil Co.              | 1     | N. O. Crown           | 1954         | Sal        | Frac          | 160  | 52          | 3212   | Pool  | CT      | Abd. 2-18  |
| 1319                    | Hopewell    | S 5-N         | 1040 SL 600 EL                           | NE       | Oxford Oil (Scott Oil)      | 1     | J. & E. Sidle         | 1955         | Sal        | Frac          | 73   | 16          | 3269   | Pool  | CT      | Abd. 6-29  |
| 1404                    | Licking     | L 4-W (1Q)    | 440 NL 355 EL                            |          | Pure Oil Co.                | 4     | A. D. Montgomery      | 1956         | Sal        | Frac          | 20   | 9           | 3449   | Pool  | CT      | Abd. 10-16 |
| 1411                    | Licking     | (2Q)          | 3800 SL 8700 WL                          |          | Oxford Oil (G. Sheaf)       | 2     | Ray Berkshire         | 1956         | Sal        | Frac          | --   | 120         | 3233   | Pool  | CT      | Abd. 1-14  |
| 1418                    | Licking     | L 6 (3Q)      | 300 NL 1050 EL                           |          | Oxford Oil Co.              | 1     | H. F. Doyle           | 1956         | Sal        | Frac          | 60   | 45          | 3187   | Pool  | CT      | Abd. 2-5   |
| 1430-2                  | Hopewell    | L 32          | 601 NL 222 WL                            |          | Central Ohio O. & G.        | 2     | Scott Rankin          | 1956         | Sal        | Frac          | 300  | 120         | 3300   | Pool  | CT      | Abd. 6-16  |
| 1446                    | Licking     | L 15 (1Q)     | 480 SL 880 EL                            |          | Pure Oil Co.                | 1     | M. E. Dunfee          | 1957         | Sal        | Frac          | 20   | 98          | 3236   | Pool  | CT      | Abd. 10-27 |
| 1491                    | Clay        | S 12          | 580 NL 622 WL                            | SW       | Ohio Fuel Gas Co.           | 1     | Swanson-Wigton        | 1957         | Sal        | Shot          | 235  | --          | 4040   | Pool  | CT      | Abd. 2-28  |
| 1506                    | Hopewell    | S 15-N        | 390 SL 660 EL                            | NW       | Oxford Oil (W. Bunyard)     | 10    | Elsie Carson          | 1957         | Sal        | Frac          | 200  | 400         | 3277   | Pool  | CT      | Abd. 3-19  |
| 1512                    | Newton      | S 35          | 546 SL 634 EL                            | NW       | Producers Dlg. & Constr.    | 1     | Walter Beisser        | 1957         | Sal        | Nat           | 1800 | --          | 3650   | Pool  | CT      | Abd. 7-31  |
| 1516                    | Newton      | S 12-W        | 1000 NL 330 WL                           | SW       | E. J. Brandes               | 3     | Ralph Thompson        | 1957         | Sal        | Frac          | 700  | 15          | 3340   | Pool  | CT      | Abd. 11-9  |
| 1535                    | Jackson     | S 6           | 1651 SL 325 EL                           | SE       | Pure Oil Co.                | 1     | Sheppard-McKee        | 1958         | Sal        | Frac          | 150  | 22          | 3094   | Pool  | CT      | Abd. 8-13  |
| 1556                    | Newton      | S 34          | 1140 SL 209 EL                           | SW       | Robinson-Ransbottom         | 1     | Robinson-Ransbottom   | 1958         | Sal        | Frac          | 1000 | 50          | 3527   | Pool  | CT      | Abd. 4-27  |
| 1567                    | Clay        | S 3           | 1130 NL 1657 EL                          | NE       | J. A. Mendenhall            | 1     | Ransbottom Pottery    | ?            | Sal        | Frac          | 1150 | 30          | 3775   | Pool  | CT      | Abd. 9-18  |
| 1591                    | Newton      | S 34          | 1300 SL 1000 EL                          | NE       | Mid-East Oil Co.            | 1-A   | A. Hina               | 1958         | Sal        | Frac          | 4430 | --          | 3559   | Pool  | CT      | Abd. 3-2   |
| 1597                    | Newton      | S 28          | 660 SL 660 EL                            | SW       | Ohio Fuel Gas Co.           | 1     | L. R. McCoy           | 1959         | Sal        | Frac          | 310  | --          | 3578   | Pool  | CT      | Abd. 4-13  |

## LIST OF OPERATIONS DURING 1964

| Permit Number           | Township    | Land Division | Location        | Operator      | Well No.                    | Lease           | Date Comp.           | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |            |
|-------------------------|-------------|---------------|-----------------|---------------|-----------------------------|-----------------|----------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|------------|
|                         |             |               |                 |               |                             |                 |                      |              |            | MCFGPD        | BOPD |             |        |       |         |            |
| MUSKINGUM COUNTY (con.) |             |               |                 |               |                             |                 |                      |              |            |               |      |             |        |       |         |            |
| 1608                    | Newton      | S 33          | 585 NL 690 EL   | NW            | Ohio Fuel Gas Co.           | 2               | Franklin Real Estate | 1959         | Sal        | Frac          | 298  | --          | 3687   | Pool  | CT      | Abd. 3-30  |
| 1618                    | Jackson     | S 3           | 330 NL 1260 WL  | SE            | W. H. Bears                 | 1               | H. Ashcraft          | 1959         | Sal        | Frac          | 200  | 75          | 3195   | Pool  | CT      | Abd. 12-31 |
| 1650                    | Newton      | S 18          | 330 NL 330 EL   | NW            | Landa Oil (Vendetta)        | 1               | F. Beach             | 1960         | Sal        | Frac          | 346  | 8           | 3310   | Pool  | CT      | Abd. 7-15  |
| 1652                    | Perry       | (3Q)          | 4930 SL 4240 EL |               | Oxford Oil Co.              | 1               | First National Bank  | 1960         | Sal        | Frac          | 200  | 5           | 4214   | Pool  | CT      | Abd. 7-8   |
| 1678                    | Perry       | (3Q)          | 1000 SL 989 WL  | SE            | Ohio Fuel Gas Co.           | 1               | P. L. Howard         | 1960         | Sal        | Frac          | 126  | --          | 4123   | Pool  | CT      | Abd. 6-24  |
| 1683                    | Perry       | S 23          | 3505 SL 3300 EL |               | Stoddard-T & L Enter.       | 1               | First National Bank  | 1961         | Sal        | Frac          | 410  | 10          | 4190   | Pool  | CT      | Abd. 12-1  |
| 1721                    | Hopewell    | S 12          | 1400 SL 0 EL    | SW            | Oxford Oil Co.              | 1               | R. & M. Taylor       | 1962         | Sal        | ?             | ?    | --          | 3426   | Pool  | CT      | Abd. 11-3  |
| 1799                    | Brush Creek | S 9           | 680 NL 530 EL   | SE            | Ohio Fuel(National G. & O.) | 1               | Clara Dozer          | 1935         | Sal        | Nat?          | 8500 | --          | 4155   | Pool  | CT      | Abd. 8-3   |
|                         |             | SUMMARY       | ABANDONED-58    |               |                             |                 |                      |              |            |               |      |             |        |       |         |            |
| NOBLE COUNTY            |             |               |                 |               |                             |                 |                      |              |            |               |      |             |        |       |         |            |
| 1238                    | Seneca      | S 26          | 155 SL 1170 EL  | SE            | Craig Cleary                | 1               | Craig Cleary         | 1963         | Mbe        | Frac          | --   | --          | 1522   | Pool  | CT      | Gas 10 MCF |
| 1243                    | Elk         | S 21          | 45 NL 67 WL     | SW            | O. C. Bode                  | 1               | Bryan Lee            | 4-16         | Pgt        | --            | --   | --          | 1105   | Pool  | CT      |            |
| 1244                    | Jefferson   | S 26          | 370 SL 1162 WL  | NW            | Walter Harriman             | 1-A             | Alex Bettinger       | 4-25         | Pbr        | Shot          | --   | 2           | 290    | Pool  | CT      |            |
| 1245                    | Jefferson   | S 26          | 478 SL 724 WL   | SW            | Gerst & Clark               | 1               | Norbert Gerst        | 2-20         | Pbr        | --            | --   | --          | 235    | Pool  | CT      |            |
| 1246                    | Elk         | S 18          | 944 SL 1245 EL  | SE            | Hickory O. & G. Co.         | 4               | J. L. Smithberger    | 7-7          | Pgt        | --            | --   | --          | 1135   | Pool  | CT      |            |
| 1247                    | Elk         | S 21          | 506 NL 438 WL   | NW            | O. C. Bode                  | 1               | D. F. Rohrer         | 10-29        | Pgt        | Shot          | --   | --          | 1250   | Pool  | CT      |            |
| 1248                    | Jackson     | S 13          | 417 NL 1800 EL  | SE            | Harriman & Gregg            | 1               | C. F. Mauer          | 7-9          | Pbr        | --            | --   | --          | 346    | Pool  | CT      |            |
| 1249                    | Marion      | S 11          | 1508 NL 1828 EL | NE            | Virgil H. Watson            | 1               | Fletcher Guiler      | 9-?          | Mbe        | Frac          | --   | --          | 1602   | Pool  | CT      | Gas 21 MCF |
| 1250                    | Elk         | S 18          | 451 SL 164 WL   | SE            | Hickory O. & G. Co.         | 5               | Faye Camden          | 9-9          | Pmx        | --            | --   | --          | 1135   | Pool  | CT      |            |
| 1251                    | Olive       | S 22          | 351 SL 616 WL   | NW            | J. O. Tilton                | 2               | M. Aka               | 9-21         | Mbe        | Shot          | --   | --          | 1833   | Pool  | CT      |            |
| 1252                    | Jefferson   | S 26          | 390 SL 363 WL   | NW            | E. R. Gregg                 | 2-A             | Alex Bettinger       | 11-25        | Pbr        | Shot          | --   | --          | 334    | Pool  | CT      |            |
|                         |             | SUMMARY       | GAS-0 OIL-1     | COMBINATION-0 |                             | DRY-10 TOTAL-11 |                      |              |            |               | 0    | 2           | 10,787 | FEET  |         |            |
| OLD WELLS ABANDONED     |             |               |                 |               |                             |                 |                      |              |            |               |      |             |        |       |         |            |
| 86                      | Olive       | S 13          | 1820 NL 1900 WL | NE            | Patten-Farley-Mosley        | 2               | Ervin Blake          | 1938         | Mbe        | ?             | ?    | --          | 1732   | Pool  | CT      | Abd. 7-16  |
| 515                     | Jefferson   | S 11          |                 |               | Ales Run Oil Co.            | 1               | Clarence Gallagher   | 1945         | Mbe?       | ?             | ?    | ?           | 1600?  | Pool  | CT      | Abd. 9-16  |
| 710-A                   | Seneca      | S 22          | 790 SL 2080 WL  | SW            | Ohio Fuel Gas Co.           | 1               | Garfield Watson      | 1926         | Mbe        | ?             | ?    | ?           | 1575   | Pool  | CT      | Abd. 3-4   |
| 774-A                   | Olive       | S 13          | 240 SL 50 EL    | NW            | Permian Oil Co.             | 1               | Ervin Blake          | 1929         | Mbe        | ?             | 527  | --          | 1705   | Pool  | CT      | Abd. 7-14  |
| 993                     | Enoch       | S 21          | 320 SL 420 EL   | SE            | W. J. Schott(Mosley)        | 1               | W. J. Schott         | 1954         | P          | ?             | --   | 1           | 665    | Pool  | CT      | Abd. 1-3   |
|                         |             | SUMMARY       | ABANDONED-5     |               |                             |                 |                      |              |            |               |      |             |        |       |         |            |
| OTTAWA COUNTY           |             |               |                 |               |                             |                 |                      |              |            |               |      |             |        |       |         |            |
| OLD WELL ABANDONED      |             |               |                 |               |                             |                 |                      |              |            |               |      |             |        |       |         |            |
| 38                      | Harris      | S 12          | 200 SL 700 EL   | SE            | Mang O. & G. Co.            | 1               | Paul Bitter          | 1946         | ?          | ?             | ?    | ?           | 1300   | Pool  | CT      | Abd. 6-30  |
|                         |             | SUMMARY       | ABANDONED-1     |               |                             |                 |                      |              |            |               |      |             |        |       |         |            |

## LIST OF OPERATIONS DURING 1964

| Permit Number | Township     | Land Division | Location        | Operator | Well No.                  | Lease | Date Comp.            | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |                     |
|---------------|--------------|---------------|-----------------|----------|---------------------------|-------|-----------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|---------------------|
|               |              |               |                 |          |                           |       |                       |              |            | MCFGPD        | BOPD |             |        |       |         |                     |
| PERRY COUNTY  |              |               |                 |          |                           |       |                       |              |            |               |      |             |        |       |         |                     |
| 2271          | Monday Creek | S 14          | 600 SL 633 EL   | SW       | St. Clair Oil Co.         | 1     | Harry Bowlby          | 11-7         | Mbe        | Nat           | 263  | --          | 931    | Pool  | CT      | Gas 40 MCF          |
| 2287          | Monday Creek | S 16          | 1040 SL 953 EL  | NW       | Lee Oil Co.               | 1     | John Spohn            | 1963         | Sal        | Frac          | --   | 35          | 2986   | Out   | CT      |                     |
| 2291          | Monday Creek | S 24          | 1047 SL 2019 WL | NW       | W. L. Blosser & Sons      | 3     | Wilber Barlow         | 5-2          | Mbe        | Shot          | --   | 4           | 804    | Pool  | CT      |                     |
| 2304          | Monroe       | S 16          | 230 NL 560 WL   | NW       | Harris Engineering Co.    | 1     | Stephen Benedict      | 1-8          | Sal        | Frac          | 3650 | --          | 3796   | Pool  | CT      |                     |
| 2305          | Reading      | S 14-E        | 1120 NL 870 EL  | SW       | S & W Oil Co.             | 1     | Homer Hammer          | 1-16         | Sal        | Frac          | 500  | --          | 3195   | Pool  | CT      |                     |
| 2306          | Monroe       | S 7           | 500 SL 500 WL   | NW       | Harris Engineering Co.    | 1     | Elizabeth Medway      | 1-15         | Sal        | Frac          | 250  | 45          | 3606   | Pool  | CT      | Canceled            |
| 2307          | Monday Creek | S 21          | 230 NL 334 WL   | NW       | Lee Oil Co.               | 1     | Eugene Engle          | 4-1          | Sal        | Frac          | 200  | 65          | 2977   | Pool  | CT      |                     |
| 2308          | Monday Creek | S 20          | 200 NL 800 WL   | NE       | Lee Oil Co.               | 1     | Mattie Hamrick        |              |            |               |      |             |        | Pool  | CT      |                     |
| 2309          | Monday Creek | S 16          | 1015 SL 330 WL  | SW       | Rex Huffman               | 1     | D. R. Holt            | 2-18         | Sal        | Frac          | 300  | 20          | 2862   | Pool  | CT      |                     |
| 2310          | Monroe       | S 31          | 300 NL 200 EL   | SE       | Ohio Fuel Gas Co.         | 1     | Lucy Ward             |              |            |               |      |             |        | Pool  | CT      |                     |
| 2311          | Monday Creek | S 21          | 175 NL 220 WL   | NW       | Lee Oil Co.               | 2     | Eugene Engle          |              |            |               |      |             |        | Pool  | CT      | Canceled Gas 50 MCF |
| 2312          | Jackson      | S 31          | 797 NL 830 EL   | NW       | Reliance Oil Corp.        | 2     | F. Throckmorton       | 3-26         | Sal        | Frac          | --   | 25          | 2759   | Pool  | CT      |                     |
| 2313          | Pike         | S 14          | 660 NL 400 WL   | NW       | Ridge Oil Co.             | 1     | Clearfield Oil Co.    | 5-8          | Sal        | Frac          | 800  | 150         | 3510   | Pool  | CT      |                     |
| 2314          | Clayton      | S 27          | 735 SL 1365 WL  | SE       | Jerry Binkley             | 1     | Albert Hamilton       | 5-26         | Sal        | --            | --   | --          | 3380   | Pool  | CT      |                     |
| 2315          | Monday Creek | S 17          | 390 SL 669 EL   | SE       | W. E. Shrider             | 1     | J. & H. George        | 6-13         | Sal        | Frac          | 100  | 75          | 2845   | Pool  | CT      |                     |
| 2316          | Thorn        | S 14          | 870 SL 450 EL   | SE       | Palm Oil(Beasley & Sharp) | 1     | L. Hamm               |              |            |               |      |             |        | Pool  | CT      | OW Abd.             |
| 2317          | Jackson      | S 30          | 652 SL 1185 EL  | SW       | W. H. Mosier Co.          | 1     | W. H. Mosier          | 6-17         | Sal        | Frac          | --   | 40          | 2854   | Pool  | CT      |                     |
| 2318          | Monday Creek | S 21          | 977 NL 385 WL   | NW       | Lee Oil Co.               | 1     | A. D. Lea, Jr.        | 7-1          | Sal        | Frac          | --   | 40          | 2944   | Pool  | CT      |                     |
| 2319          | Pike         | S 14          | 420 NL 990 WL   | NW       | Ridge Oil Co.             | 2     | Clearfield Oil Co.    | 7-9          | Sal        | Frac          | 300  | 30          | 3518   | Pool  | CT      |                     |
| 2320          | Pike         | S 19          | 600 NL 535 WL   | NE       | Waverly Oil Works         | 1     | E. W. Newlon          | 7-9          | Sal        | Frac          | 1000 | --          | 3244   | Pool  | CT      |                     |
| 2321          | Thorn        | S 4           | 1205 SL 489 EL  | NE       | Petrol Servicing, Inc.    | 1     | G. & A. Hays          | 7-22         | Cor        | --            | --   | --          | 4549   | FWC   | CT      | Abd. loc.           |
| 2322          | Monday Creek | S 21          | 330 NL 971 EL   | SW       | Petrol Servicing, Inc.    | 1     | J. & M. Stamper       |              |            |               |      |             |        | Pool  | CT      |                     |
| 2323          | Monday Creek | S 21          | 330 SL 1837 EL  | SE       | Petrol Servicing, Inc.    | 2     | J. & M. Stamper       | 7-30         | Sal        | Frac          | --   | 10          | 3010   | Pool  | CT      |                     |
| 2324          | Monday Creek | S 15          | 400 NL 180 WL   | SW       | Oxford Oil Co.            | 1     | R. S. Terrel          | 7-31         | Sal        | Frac          | 100  | 20          | 3171   | Pool  | CT      |                     |
| 2325          | Reading      | S 24          | 695 NL 577 EL   | SW       | Edward J. Kubat           | 1     | T. & H. Ryan          | 8-17         | Sal        | Frac          | --   | 50          | 3186   | Pool  | CT      |                     |
| 2326          | Monday Creek | S 16          | 510 SL 1774 EL  | NW       | W. E. Shrider             | 1     | Richard Hunt          | 8-12         | Sal        | --            | --   | --          | 2557   | Pool  | CT      | Gas 50 MCF          |
| 2327          | Monday Creek | S 20          | 400 NL 400 EL   | NE       | W. E. Shrider             | 2     | J. & G. Howdyshell    | 11-21        | Sal        | Frac          | --   | 30          | 2936   | Pool  | CT      |                     |
| 2328          | Monday Creek | S 16          | 710 NL 2144 EL  | SW       | Huffman Dlg. Co.          | 1     | Lawrence Howdyshell   | 8-11         | Sal        | Frac          | --   | 5           | 2882   | Pool  | CT      |                     |
| 2329          | Pike         | S 14          | 330 NL 990 EL   | NW       | Ridge Oil Co.             | 1     | Vossler & Mahon       | 9-11         | Sal        | Frac          | 500  | 50          | 3522   | Pool  | CT      |                     |
| 2330          | Pike         | S 10          | 330 SL 330 EL   | SE       | Ridge Oil Co.             | 1     | Dave Lewis            | 8-25         | Sal        | Frac          | 350  | 40          | 3485   | Pool  | CT      |                     |
| 2331          | Monroe       | S 28          | 1103 SL 1784 EL | SE       | John Altier, Sr.          | 1     | W. F. Nuzum           | 8-11         | Mbe        | Shot          | --   | 1           | 1174   | Pool  | CT      | Gas 35 MCF          |
| 2332          | Monroe       | S 28          | 1120 SL 1430 EL | SE       | John Altier, Sr.          | 1     | Carlos Stotler(Fouts) | 8-11         | Mbe        | Shot          | --   | 1           | 1156   | Pool  | CT      |                     |
| 2333          | Monday Creek | S 16          | 755 NL 400 WL   | SE       | Lee Oil Co.               | 1     | J. & A. Coomer        | 10-25        | Sal        | Frac          | --   | 40          | 3084   | Pool  | CT      |                     |
| 2334          | Pike         | S 11          | 330 SL 990 WL   | SW       | Ridge Oil Co.             | 1     | R. R. Groves          | 10-9         | Sal        | Frac          | 300  | 100         | 3495   | Pool  | CT      |                     |
| 2335          | Monroe       | S 16          | 825 SL 330 EL   | NW       | John Altier, Sr.          | 1     | R. W. Braglan         | 9-25         | Sal        | Frac          | 375  | 25          | 3768   | Pool  | CT      |                     |
| 2336          | Jackson      | S 32          | 1000 SL 380 EL  | SE       | W. H. Mosier Co.          | 1     | James Howdyshell      | 10-28        | Sal        | Frac          | --   | 30          | 3043   | Pool  | CT      | Gas 25 MCF          |
| 2337          | Madison      | S 5           | 805 SL 10 EL    | NW       | W. J. Kammann & Assoc.    | 1     | T. Kroft              | 10-8         | Sal        | Frac          | 726  | --          | 3242   | Pool  | CT      |                     |
| 2338          | Monday Creek | S 16          | 330 SL 968 EL   | SW       | Rex Huffman Dlg.          | 2     | D. R. Holt            | 10-8         | Sal        | Frac          | --   | 20          | 3002   | Pool  | CT      |                     |
| 2339          | Jackson      | S 33          | 660 SL 660 EL   | SW       | Oxford Oil Co.            | 1     | Earl Spohn            | 10-9         | Sal        | --            | --   | --          | 3125   | Pool  | CT      |                     |
| 2340          | Monday Creek | S 16          | 525 SL 1774 EL  | NW       | W. E. Shrider             | 1-A   | Richard Hunt          | 9-7          | Sal        | Frac          | --   | 30          | 2953   | Pool  | CT      |                     |
| 2341          | Hopewell     | S 27          | 330 NL 2120 WL  | NW       | Galion Prospectors        | 1     | Edith Bussy           | 11-4         | Sal        | Frac          | --   | 60          | 3007   | Pool  | CT      | Gas 50 MCF          |
| 2342          | Pike         | S 10          | 2100 SL 580 EL  | SE       | Ridge Oil Co.             | 1     | Ned Underwood         | 10-24        | Sal        | Frac          | 500  | 50          | 3525   | Pool  | CT      |                     |
| 2343          | Monday Creek | S 20          | 400 NL 2340 WL  | NW       | Roy Proffitt              | 1     | Lawrence Tamehill     | 11-2         | Mbe        | Nat?          | 526  | --          | 899    | Pool  | CT      |                     |
| 2344          | Pike         | S 15          | 330 NL 330 EL   | NW       | Ridge Oil Co.             | 3     | David Lewis           | 12-?         | Sal        | Frac          | 180  | 50          | 3463   | Pool  | CT      |                     |
| 2345          | Jackson      | S 33          | 400 NL 660 WL   | NW       | W. E. Shrider             | 1     | M. T. Spohn           | 11-5         | Sal        | --            | --   | --          | 3057   | Pool  | CT      |                     |

## LIST OF OPERATIONS DURING 1964

| Permit Number        | Township     | Land Division | Location        | Operator | Well No.                  | Lease          | Date Comp.             | Deepest Unit | Type Comp. | Initial Prod. |        | Total Depth | Class.       | Tools | Remarks |            |
|----------------------|--------------|---------------|-----------------|----------|---------------------------|----------------|------------------------|--------------|------------|---------------|--------|-------------|--------------|-------|---------|------------|
|                      |              |               |                 |          |                           |                |                        |              |            | MCFGPD        | ROPD   |             |              |       |         |            |
| PERRY COUNTY (con.)  |              |               |                 |          |                           |                |                        |              |            |               |        |             |              |       |         |            |
| 2346                 | Monday Creek | S 9           | 405 SL 330 WL   | NW       | Petrol Servicing, Inc.    | 1              | Bowlby & Engle         |              |            |               |        |             | Pool         | CT    | Active  |            |
| 2347                 | Monday Creek | S 15          | 1075 SL 180 WL  | SW       | Oxford Oil Co.            | 1              | Albert Wahl            | 12-12        | Sal        | Nat?          | 440    | --          | 3077         | Pool  |         | CT         |
| 2348                 | Monroe       | S 17          | 230 NL 1500 EL  | NE       | John Altier, Sr.          | 1              | John Crothers          | 12-5         | Sal        | Frac          | 5440   | 5           | 3789         | Pool  |         | CT         |
| 2349                 | Monday Creek | S 2           | 929 SL 387 WL   | SW       | Rex Huffman               | 1              | A. E. Lewis            | 10-27        | Sal        | Frac          | 150    | 40          | 3160         | Pool  |         | CT         |
| 2350                 | Jackson      | S 16          | 1072 NL 650 WL  | SW       | Metzger Bros.             | 2              | Edgar Metzger          | 12-16        | Sal        | Frac          | --     | 25          | 2959         | Pool  |         | CT         |
| 2351                 | Pike         | S 21          | 325 SL 735 WL   | NW       | John H. Adger             | 2              | Carl Campbell          |              |            |               |        |             | Pool         | CT    | Active  |            |
| 2352                 | Monday Creek | S 20          | 625 SL 400 EL   | SW       | Oxford Oil Co.            | 2              | Lula St. Clair         | 12-16        | Sal        | Frac          | 100    | 35          | 3016         | Pool  |         | CT         |
| 2353                 | Pike         | S 14          | 1080 NL 990 WL  | NW       | Ridge Oil Co.             | 3              | Clearfield Coal Co.    | 12-16        | Sal        | Frac          | 150    | 65          | 3538         | Pool  |         | CT         |
| 2354                 | Monday Creek | S 16          | 275 SL 1505 WL  | NE       | Lee Oil Co.               | 1              | O. & M. Smith          |              |            |               |        |             | Pool         | CT    | Active  |            |
| 2355                 | Madison      | S 17          | 301 SL 259 WL   | NW       | Reliance Oil Corp.        | 1              | W. S. Bellville        |              |            |               |        |             | Pool         | CT    |         |            |
| 2356                 | Monday Creek | S 23          | 50 NL 330 WL    | SW       | Ridge Oil Co.             | 1              | William Terrell        | 12-20        | Sal        | Frac          | 100    | 50          | 3120         | Pool  | CT      | Active     |
| 2357                 | Monday Creek | S 8           | 518 SL 1271 EL  | NW       | W. E. Shrider             | 1              | John Walker            |              |            |               |        |             | Pool         | CT    |         |            |
| 2358                 | Reading      | S 11-E        | 230 NL 1180 EL  | SE       | Blue-Gray Dlg. Co.        | 1              | Clyde Butts            | 12-16        | Sal        | Frac          | 250    | 40          | 3243         | Pool  | CT      |            |
| 2359                 | Monday Creek | S 21          | 330 SL 330 WL   | SW       | Stone O. & G. Co.         | 1              | Sherman Dickens        |              |            |               |        |             | Pool         | CT    |         |            |
| 2360                 | Reading      | S 35-E        | 800 SL 635 EL   | NW       | K Dlg. Co.                | 1              | David Folk             |              |            |               |        |             | Pool         | CT    |         |            |
| 2361                 | Salt Lick    | S 12          | 470 NL 766 WL   | NE       | W. J. Kammann & Assoc.    | 1              | Sarvis Heirs           |              |            |               |        |             | Pool         | CT    | Active  |            |
| 2362                 | Monday Creek | S 20          | 1300 NL 2340 WL | NW       | Roy Proffitt              | 3              | Lawrence Tannehill     |              |            |               |        |             | Pool         | CT    |         |            |
| SUMMARY              |              |               | GAS-7           | OIL-17   | COMBINATION-19            | DRY-5 TOTAL-48 |                        |              |            |               | 17,550 | 1,401       | 143,410 FEET |       |         |            |
| OLD WELL WORKED OVER |              |               |                 |          |                           |                |                        |              |            |               |        |             |              |       |         |            |
| 1482                 | Reading      | S 23-E        | 984 SL 961 EL   | SE       | Roy G. Gordon, Jr.        | 1              | Earl Miller            | 1950         | Sal        | --            | --     | --          | 3093         | Pool  | CT      | Gas 50 MCF |
|                      |              |               |                 |          |                           |                |                        | 10-?         | Sal        | Frac          | --     | 20          | 3056         | Pool  | CT      |            |
| SUMMARY              |              |               | WORKED OVER-1   |          |                           |                |                        |              |            |               | 0      | 20          | 0 FEET       |       |         |            |
| OLD WELLS ABANDONED  |              |               |                 |          |                           |                |                        |              |            |               |        |             |              |       |         |            |
| 32                   | Reading      | S 7           | 2400 SL 2300 WL | SW       | Ohio Fuel Gas Co.         | 1              | P. Folk (W. Lehman)    | 1936         | Sal        | Nat?          | 200    | --          | 2950         | Pool  | CT      | Abd. 2-17  |
| 47                   | Reading      | S 6           |                 |          | Ohio Fuel Gas Co.         | 2              | H. Rousculp (H. Beard) | 1936         | Sal        | ?             | ?      | --          | 2962         | Pool  | CT      | Abd. 1-27  |
| 103                  | Monroe       | S 21          | 1220 NL 1360 WL | SW       | Corning Prod. Co.         | 1              | Sunday Creek Coal      | 1937         | Sal        | ?             | 500    | --          | 3666         | Pool  | CT      | Abd. 11-12 |
| 122                  | Reading      | S 8           | 540 NL 400 WL   | SW       | Ohio Fuel Gas Co.         | 3              | B. S. Yarger           | 1938         | Sal        | ?             | 710    | --          | 2979         | Pool  | CT      | Abd. 2-24  |
| 136                  | Monroe       | S 29          | 600 NL 550 EL   | NE       | Ohio Fuel Gas Co.         | 6              | G. M. Jones Coal Co.   | 1939         | Sal        | ?             | 640    | --          | 3774         | Pool  | CT      | Abd. 5-28  |
| 158                  | Monroe       |               |                 |          | Ohio Fuel Gas Co.         | 158            | Sunday Creek Coal Co.  | 1937         | Mbe        | ?             | ?      | ?           | 973          | Pool  | CT      | Abd. 5-15  |
| 375                  | Clayton      | S 16          | 1450 NL 2230 EL | NE       | Palm Oil Co.              | 4              | New Perry Coal Co.     | 1942         | Sal        | ?             | 350    | 25          | 3423         | Pool  | CT      | Abd. 8-12  |
| 560                  | Madison      | S 10          | 660 SL 400 WL   | SE       | Ohio Fuel Gas (Preston)   | 2              | Theodore Parks         | 1944         | Sal        | ?             | 1500   | --          | 3316         | Pool  | CT      | Abd. 3-19  |
| 643                  | Reading      | S 10          | 400 SL 560 WL   | NE       | Natol Pet. (Industrial)   | 1              | Sidney Miller          | 1945         | Sal        | Shot?         | 684    | --          | 3125         | Pool  | CT      | Abd. 4-1   |
| 731                  | Reading      | S 10          | 320 SL 300 EL   | NE       | Natol Pet. (Twenty Grand) | 2              | Walter Garey           | 1945         | Sal        | ?             | 500    | --          | 3064         | Pool  | CT      | Abd. 11-17 |
| 790-A                | Harrison     | S 4           |                 |          | Oxford Oil (Slagle)       | 1              | Charles Brown          | ?            | Sal        | ?             | --     | ?           | 3504         | Pool  | CT      | Abd. 1-20  |
| 796                  | Thorn        | S 13          | 2100 SL 1100 EL | SE       | Oxford Oil (Ohio Fuel)    | 3              | E. R. Foucht           | 1944         | Sal        | ?             | --     | 7           | 2854         | Pool  | CT      | Abd. 3-18  |
| 973                  | Madison      | S 27          | 400 NL 2300 EL  | NE       | Oxford Oil (Atha Oil)     | 1              | W. H. Atha-D. Combs    | 1947         | Sal        | Shot          | 500    | 30          | 3422         | Pool  | CT      | Abd. 5-11  |
| 977-A                | Reading      | S 12-W        | 660 NL 660 EL   | NW       | Ohio Fuel Gas Co.         | 2              | W. F. Hummel           | 1929         | Sal        | Nat?          | 1470   | --          | 2796         | Pool  | CT      | Abd. 2-10  |
| 1057                 | Madison      | S 22          | 540 SL 1320 WL  | SW       | Oxford Oil (Atha Oil)     | 1              | W. T. Elliott          | 1948         | Sal        | ?             | 384    | 61          | 3363         | Pool  | CT      | Abd. 4-13  |

## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township   | Land Division | Location              | Operator | Well No.                 | Lease | Date Comp.               | Deepest Unit           | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |            |
|---------------------|------------|---------------|-----------------------|----------|--------------------------|-------|--------------------------|------------------------|------------|---------------|------|-------------|--------|-------|---------|------------|
|                     |            |               |                       |          |                          |       |                          |                        |            | MCFGPD        | BOPD |             |        |       |         |            |
| PERRY COUNTY (con.) |            |               |                       |          |                          |       |                          |                        |            |               |      |             |        |       |         |            |
| 1101                | Hopewell   | S 28          | 800 NL 1100 EL        | NE       | O. & G. Co. (Wasson)     | 1     | Murray Goble             | 1948                   | Sal        | ?             | --   | ?           | 2974   | Pool  | CT      | Abd. 7-8   |
| 1143                | Bearfield  | S 11          | 140 NL 2120 EL        | SE       | Ohio Fuel Gas Co.        | 1     | Grace Toki               | 1948                   | Sal        | ?             | 660  | --          | 3986   | Pool  | CT      | Abd. 2-28  |
| 1162                | Pleasant   | S 21          | 650 SL 1260 WL        | SW       | Ohio Fuel Gas Co.        | 1     | Pettit-Ault              | 1948                   | Sal        | Shot          | 419  | --          | 3871   | Pool  | CT      | Abd. 3-28  |
| 1318                | Hopewell   | S 34          |                       |          | Mid-East Oil Co.         | 4     | M. Beiter (Underwood)    | 1949                   | Sal        | ?             | --   | ?           | 3002   | Pool  | CT      | Abd. 12-7  |
| 1339                | Madison    | S 32          | 1750 SL 840 WL        | SW       | Oxford Oil (Mid-East)    | 5     | R. & N. Beard            | 1949                   | Sal        | ?             | --   | ?           | 3209   | Pool  | CT      | Abd. 2-21  |
| 1414                | Madison    | S 32          | 1080 SL 1550 WL       | SW       | Oxford Oil (Mid-East)    | 6     | R. & N. Beard            | 1950                   | Sal        | Frac          | 20   | 45          | 3129   | Pool  | CT      | Abd. 12-18 |
| 1509                | Hopewell   | S 33          | 2160 SL 630 WL        | SW       | Ohio Fuel Gas Co.        | 3     | H. W. Dupler             | 1951                   | Sal        | Frac          | 50   | 75          | 2954   | Pool  | CT      | Abd. 11-4  |
| 1764                | Jackson    | S 29          | 1498 NL 1087 WL       | NW       | George Sheaf & Co.       | 1     | F. & R. Ashbaugh         | 1956                   | Sal        | Frac          | 50   | 10          | 3094   | Pool  | CT      | Abd. 10-27 |
| 1786                | Pike       | S 5           | 1484 SL 1070 EL       | SW       | Oxford Oil (Mid-East)    | 2     | Perry Co. Infirmary      | 1956                   | Sal        | Frac          | 300  | 112         | 3376   | Pool  | CT      | Abd. 7-24  |
| 1859                | Madison    | S 6           | 1350 SL 525 EL        | NW       | Natol Pet. Corp.         | 1     | J. H. Denny Heirs        | 1957                   | Sal        | Frac          | 1090 | 25          | 3184   | Pool  | CT      | Abd. 1-27  |
| 1884                | Reading    | S 23-E        | 660 SL 660 EL         | NW       | Kinsell Oil Co.          | 1-B   | St. Joseph Literary Soc. | 1957                   | Sal        | Frac          | 20   | 45          | 3129   | Pool  | CT      | Abd. 12-18 |
| 1885                | Jackson    | S 4           | 990 NL 560 WL         | SW       | T. R. Wadkins (Kinsell)  | 1     | H. L. Householder        | 1958                   | Sal        | Frac          | 50   | 75          | 2954   | Pool  | CT      | Abd. 11-4  |
| 1936                | Madison    | S 5           | 1110 NL 782 WL        | NE       | Shulman Bros.            | 1-B   | Roy Beardmore            | 1958                   | Sal        | Frac          | 50   | 10          | 3094   | Pool  | CT      | Abd. 10-27 |
| 1972                | Pike       | S 22          | 375 SL 585 WL         | SW       | Natol Pet. Corp.         | 4-A   | Sunnyhill Coal Co.       | 1959                   | Sal        | Frac          | 300  | 112         | 3376   | Pool  | CT      | Abd. 7-24  |
| 1985                | Jackson    | S 14          | 360 SL 770 WL         | SE       | Reliance Oil (Altier)    | 4     | Thomas Paxton            | 1959                   | Sal        | Frac          | 1090 | 25          | 3184   | Pool  | CT      | Abd. 1-27  |
| 2015                | Pleasant   | S 30          | 800 NL 650 WL         | NW       | Landa Oil (Taft McGee)   | 1     | A. T. Pettet             | 1959                   | Sal        | Frac          | 238  | --          | 3571   | Pool  | CT      | Abd. 6-1   |
| 2017                | Pleasant   | S 25          | 1600 NL 1066 EL       | NE       | W. F. Glass (Pure Oil)   | 1     | C. M. Newman             | 1959                   | Sal        | Frac          | 1707 | --          | 3584   | Pool  | CT      | Abd. 5-15  |
| 2027                | Jackson    | S 14          | 1100 SL 795 WL        | SE       | Reliance Oil Corp.       | 5     | Thomas Paxton            | 1959                   | Sal        | Frac          | --   | 10          | 3162   | Pool  | CT      | Abd. 2-3   |
| 2089                | Pike       | S 19          | 650 SL 700 EL         | SE       | Preston Oil Co.          | 1     | G. A. Forquer            | 1960                   | Sal        | Frac          | 15   | 10          | 3205   | Pool  | CT      | Abd. 6-17  |
| 2138                | Pleasant   | S 1           | 800 SL 622 EL         | SE       | Landa Oil (Taft McGee)   | 1     | Susie Vargo              | 1961                   | Sal        | Frac          | --   | 40          | 3668   | Pool  | CT      | Abd. 8-18  |
| 2226                | Pike       | S 26          | 530 NL 900 WL         | NW       | Buckeye Supply (Bright)  | 1     | Peabody Coal (Wolfe)     | 1962                   | Sal        | Frac          | 428  | 240         | 3595   | Pool  | CT      | Abd. 11-18 |
| 2251                | Clayton    | S 34          | 990 NL 330 EL         | NW       | Harris Engineering       | 2     | Clearfield Coal Co.      | 1962                   | Sal        | Frac          | 300  | 200         | 3422   | Pool  | CT      | Abd. 5-22  |
| 2254                | Clayton    | S 33          | 970 SL 880 EL         | NW       | Harris Engineering       | 1     | State of Ohio-Dugan      | 1962                   | Sal        | Frac          | 275  | 180         | 3418   | Pool  | CT      | Abd. 10-15 |
| 2279                | Monroe     | S 27          | 1838 NL 1089 WL       | NW       | John Altier, Sr.         | 1     | Moses Lotte              | 1963                   | Mbe        | Shot          | --   | 1           | 1172   | Pool  | CT      | Abd. 7-27  |
| 2302                | Pleasant   | S 6           | 600 NL 510 EL         | SW       | Natol Pet. Corp.         | 2     | E. & T. Wilson           | 1963                   | Sal        | Frac          | --   | 30          | 3719   | Pool  | CT      | Abd. 11-27 |
| 2310                | Monroe     | S 31          | 300 NL 200 EL         | SE       | Ohio Fuel Gas Co.        | 1     | Lucy Ward                | ?                      | Mbe        | ?             | --   | ?           | 1113   | Pool  | CT      | Abd. 1-27  |
| 2316                | Thorn      | S 14          | 870 SL 450 EL         | SE       | Beasley & Sharp (Palm)   | 1     | Ivan Hamm                | 1941                   | Sal        | ?             | --   | 15          | 2855   | Pool  | CT      | Abd. 7-6   |
|                     |            | SUMMARY       | ABANDONED-47          |          |                          |       |                          |                        |            |               |      |             |        |       |         |            |
| STORAGE ABANDONED   |            |               |                       |          |                          |       |                          |                        |            |               |      |             |        |       |         |            |
|                     |            | Thorn         | S 36                  |          | Ohio Fuel Gas (National) | 4     | D. J. Linas              | "Clinton" Storage Area |            |               |      |             |        |       |         |            |
|                     |            | SUMMARY       | STORAGE ABANDONED-1   |          |                          |       |                          |                        |            |               |      |             |        |       |         |            |
| PICKAWAY COUNTY     |            |               |                       |          |                          |       |                          |                        |            |               |      |             |        |       |         |            |
| 5                   | Jackson    | VMSL 7947     | 15680 SL 4040 WL Twp. |          | McMahon-Bullington Dlg.  | 2     | M. M. Croman             | 4-?                    | €cr        | --            | --   | --          | 2553   | FWC   | RT      |            |
| 6                   | Pickaway   | S 7-W         | 330 SL 330 EL         | NE       | Midwest O. Corp.         | 1     | C. A. Miller             | 10-2                   | €cr        | --            | --   | --          | 4179   | FWC   | CT      |            |
| 7                   | Jackson    | VMSL 9047     | 4976 SL 12818 WL Twp. |          | P. L. Clarkson, Jr.      | 1     | O. Irish                 | 7-21                   | €cr        | --            | --   | --          | 3100   | FWC   | RT      |            |
| 8                   | Deer Creek | VMSL 6942     | 1077 NL 462 EL        |          | P. L. Clarkson, Jr.      | 1     | M. E. Snyder             | 8-2                    | €ms        | --            | --   | --          | 3720   | FWC   | RT      |            |
| 9                   | Jackson    | VMSL 7947     | 15,000 SL 6100 WL     |          | McMahon-Bullington       | 3     | M. M. Croman             | 10-24                  | €cr        | --            | --   | --          | 2783   | FWC   | RT      |            |

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township    | Land Division       | Location              | Operator                                  | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks   |
|------------------------|-------------|---------------------|-----------------------|---|----------|--------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-----------|
|                        |             |                     |                       |   |          |                    |            |              |            | MCFGPD        | BOPD |             |        |       |           |
| PICKAWAY COUNTY (con.) |             |                     |                       |   |          |                    |            |              |            |               |      |             |        |       |           |
| 10                     | Scioto      | VMSL 6115           | 1960 NL 10700 EL Twp. | Hadson Ohio Oil Co. & Hammerstone Oil Co. | 1        | B. I. Graham       | 11-26      | €cr          | --         | --            | --   | 2700        | FWC    | RT    | Active    |
| 11                     | Jackson     | VMSL 8526           | 713 SL 590 WL         | P. L. Clarkson                            | 1        | B. R. Riggin       |            |              |            |               |      |             | FWC    | RT    |           |
|                        |             | SUMMARY             | GAS-0 OIL-0           | COMBINATION-0                             |          | DRY-6 TOTAL-6      |            |              |            | 0             | 0    | 19,035      | FEET   |       |           |
| PIKE COUNTY            |             |                     |                       |   |          |                    |            |              |            |               |      |             |        |       |           |
| 29                     | Pebble      | Latham Survey 12777 | 4840 NL 8708 WL Twp.  | Well Supervision, Inc.                    | 1        | E. Conley          | 9-17       | €ms          | --         | --            | --   | 3612        | FWC    | CT    | Active    |
| 30                     | Pee Pee     | VMSL 2863           | 1085 NL 245 WL        | Well Supervision, Inc.                    | 1        | G. D. Nye          | 8-24       | €            | --         | --            | --   | 3636        | FWC    | CT    |           |
| 31                     | Jackson     | S 10-W              | 660 NL 660 EL NW      | Well Supervision, Inc.                    | 1        | M. D. Ross         |            |              |            |               |      |             | FWC    | CT    |           |
| 32                     | Seal        | S 19                | 660 SL 660 WL NE      | Well Supervision, Inc.                    | 1        | Russell Burton     | 11-23      | €            | --         | --            | --   | 3391        | FWC    | CT    |           |
|                        |             | SUMMARY             | GAS-0 OIL-0           | COMBINATION-0                             |          | DRY-3 TOTAL-3      |            |              |            | 0             | 0    | 10,639      | FEET   |       |           |
| PORTAGE COUNTY         |             |                     |                       |   |          |                    |            |              |            |               |      |             |        |       |           |
| 216                    | Edinburg    | L 2 (4Q)            | 2725 NL 875 WL        | Wiser Oil Co.                             | 1        | Kahn-Jones         | 1963       | Sal          | Frac       | 350           | 5    | 4600        | Pool   | CT    | Discovery |
| 222                    | Deerfield   | L 96                | 850 NL 660 EL         | Midland Exploration                       | 1        | G. & M. Dickey     | 1963       | Sal          | Frac       | 94            | --   | 4874        | NWC    | RT    |           |
| 231                    | Edinburg    | L 7                 | 225 SL 880 EL         | Midland Exploration                       | 1        | J. & F. Sapp       | 1963       | Sal          | --         | --            | --   | 4685        | Pool   | RT    |           |
| 232                    | Atwater     | L 8                 | 1700 NL 660 WL        | Midland Exploration                       | 1        | J. & M. Sekel      | 1963       | Sal          | Frac       | 890           | --   | 4834        | Pool   | RT    |           |
| 236                    | Randolph    | L 44                | 1120 SL 825 EL        | Huron Exploration                         | 1        | H. & A. Neidert    | 2-6        | Sal          | Frac       | 1240          | --   | 4700        | Pool   | RT    |           |
| 237                    | Randolph    | L 44                | 200 NL 500 WL         | Huron Exploration                         | 1        | F. & M. May        | 1-26       | Sal          | Frac       | 1064          | --   | 4660        | Pool   | RT    |           |
| 238                    | Randolph    | L 34                | 1350 NL 590 WL        | Huron Exploration                         | 1        | W. & M. Brewer     | 2-15       | Sal          | Frac       | 250           | 5    | 4706        | Pool   | RT    |           |
| 239                    | Randolph    | L 54                | 500 NL 660 WL         | Huron Exploration                         | 1        | L. Snyder          | 1-16       | Sal          | Frac       | 1116          | --   | 4650        |        |       |           |
| 243                    | Windham     | L 59                | 596 SL 384 EL         | East Ohio Gas Co.                         | 1        | C. & S. Wheaton    | 1963       | Sal          | Frac       | 158           | --   | 4349        | FWC    | RT    |           |
| 245                    | Randolph    | L 76                | 50 SL 660 EL          | Belden & Blake & Co.                      | 1        | L. & I. May        | 1963       | Sal          | Frac       | 1346          | --   | 4570        | Pool   | RT    |           |
| 246                    | Randolph    | L 97                | 635 SL 599 EL         | East Ohio Gas Co.                         | 1        | A. Rogers          | 1963       | Sal          | Frac       | 2153          | --   | 4500        | Pool   | RT    |           |
| 247                    | Edinburg    | L 8                 | 585 SL 505 WL         | Midland Exploration                       | 1        | R. & S. Herbeck    | 2-7        | Sal          | Frac       | 673           | --   | 4729        | Pool   | RT    |           |
| 248                    | Edinburg    | L 7                 | 440 SL 875 EL         | Midland Exploration                       | 2        | J. & F. Sapp       | 1-10       | Sal          | Frac       | 1387          | --   | 4790        | Pool   | RT    |           |
| 249                    | Randolph    | L 67                | 450 SL 1282 EL        | Belden & Blake & Co.                      | 1        | Gougler Homesites  | 1963       | Sal          | Frac       | 223           | --   | 4542        | Pool   | RT    |           |
| 250                    | Edinburg    | L 9                 | 600 SL 660 EL         | Midland Exploration                       | 1        | E. & R. Brown      | 1-28       | Sal          | Frac       | 1346          | --   | 4805        | Pool   | RT    |           |
| 251                    | Edinburg    | L 9                 | 575 SL 660 WL         | Midland Exploration                       | 1        | D. & A. Snow       | 1-1        | Sal          | Nat        | 212           | --   | 4801        | Pool   | RT    |           |
| 252                    | Atwater     | L 94                | 740 NL 660 EL         | Midland Exploration                       | 1        | Wallace Amlin      | 2-20       | Sal          | Frac       | 1053          | --   | 4810        | Pool   | RT    |           |
| 253                    | Rootstown   | L 1                 | 450 NL 860 WL         | Midland Exploration                       | 2        | Zickefoose-Metzger | 1-24       | Sal          | Frac       | 952           | --   | 4697        | Pool   | RT    |           |
| 254                    | Randolph    | L 57                | 720 NL 350 WL         | Belden & Blake & Co.                      | 2        | Rothermal          |            |              |            |               |      |             | Pool   | RT    |           |
| 255                    | Randolph    | L 56                | 700 NL 978 EL         | Belden & Blake & Co.                      | 1        | E. & N. Thomas     | 1-11       | Sal          | Frac       | 1303          | --   | 4549        | Pool   | RT    |           |
| 256                    | Randolph    | L 55                | 800 NL 1060 EL        | Belden & Blake & Co.                      | 1        | B. & A. Knecht     | 1-13       | Sal          | Frac       | 1614          | 2    | 4594        | Pool   | RT    |           |
| 257                    | Randolph    | L 45                | 330 NL 1200 WL        | Belden & Blake & Co.                      | 1        | M. & J. Herchek    | 1-26       | Sal          | Frac       | 1428          | 5    | 4610        | Pool   | RT    |           |
| 258                    | Charlestown | L 34                | 634 SL 330 EL         | Mutual O. & G. Co.                        | 1        | Leon Baldwin       | 1-26       | Sal          | Frac       | --            | 15   | 4482        | Pool   | RT    |           |
| 259                    | Randolph    | L 75                | 472 SL 1415 WL        | Belden & Blake & Co.                      | 1        | K. & J. Shavers    | 2-12       | Sal          | Frac       | 4400          | --   | 4609        | Pool   | RT    |           |
| 260                    | Randolph    | L 96                | 690 NL 918 WL         | East Ohio Gas Co.                         | 1        | J. & F. Bailey     | 2-21       | Sal          | Frac       | 8248          | --   | 4509        | Pool   | RT    |           |

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township    | Land Division | Location        | Operator               | Well No. | Lease             | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks           |
|-----------------------|-------------|---------------|-----------------|------------------------|----------|-------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-------------------|
|                       |             |               |                 |                        |          |                   |            |              |            | MCFGPD        | BOPD |             |        |       |                   |
| PORTAGE COUNTY (con.) |             |               |                 |                        |          |                   |            |              |            |               |      |             |        |       |                   |
| 261                   | Randolph    | L 75          | 396 NL 1962 WL  | East Ohio Gas Co.      | 2        | H. & C. Meacham   | 2-16       | Sal          | Frac       | 3602          | --   | 4648        | Pool   | RT    |                   |
| 262                   | Rootstown   | L 25          | 1700 SL 674 EL  | East Ohio Gas Co.      | 1        | B. & R. Herwick   | 3-2        | Sal          | Frac       | 2340          | --   | 4506        | Pool   | RT    |                   |
| 263                   | Rootstown   | L 36          | 1003 NL 102 EL  | East Ohio Gas Co.      | 1        | R. & R. Kerr      | 3-2        | Sal          | Frac       | 2060          | --   | 4480        | Pool   | RT    |                   |
| 264                   | Charlestown | L 21          | 1050 SL 970 WL  | K-Vill O. & G. Co.     | 2        | M. & J. Baker     | 4-21       | Sal          | Frac       | 250           | 80   | 4475        | Pool   | RT    |                   |
| 265                   | Randolph    | L 97          | 1425 NL 775 WL  | East Ohio Gas Co.      | 2        | A. Rogers         |            |              |            |               |      |             | Pool   | RT    | Replaced by P-315 |
| 266                   | Randolph    | L 13          | 526 NL 40 WL    | Huron Exploration      | 1        | M. M. Lucas       |            |              |            |               |      |             | Pool   | RT    | Abd. loc.         |
| 267                   | Randolph    | L 24          | 1474 NL 1572 EL | Huron Exploration      | 1        | Oliver & Hamrick  |            |              |            |               |      |             | Pool   | RT    | Abd. loc.         |
| 268                   | Atwater     | L 8           | 364 SL 660 EL   | Midland Exploration    | 1        | W. & D. Cain      | 2-28       | Sal          | Frac       | 1327          | --   | 4843        | Pool   | RT    |                   |
| 269                   | Rootstown   | L 28          | 660 SL 660 WL   | Midland Exploration    | 1        | W. E. Mesaros     | 2-17       | Sal          | Frac       | 1895          | --   | 4415        | Pool   | RT    |                   |
| 270                   | Randolph    | L 27          | 265 NL 660 EL   | Huron Exploration      | 1        | J. & M. Marks     |            |              |            |               |      |             | Pool   | RT    | Abd. loc.         |
| 271                   | Randolph    | L 46          | 260 NL 745 EL   | Huron Exploration      | 1        | M. & D. Wracher   | 2-23       | Sal          | Frac       | 350           | 5    | 4670        | Pool   | RT    |                   |
| 272                   | Randolph    | L 37          | 400 NL 925 EL   | Huron Exploration      | 1        | F. & J. Kidikas   |            |              |            |               |      |             | Pool   | RT    | Replaced by P-282 |
| 273                   | Randolph    | L 47          | 400 NL 400 EL   | Huron Exploration      | 1        | Hazel Eberle      | 3-2        | Sal          | Frac       | 1009          | --   | 4630        | Pool   | RT    |                   |
| 274                   | Randolph    | L 53          | 740 SL 365 WL   | Huron Exploration      | 1        | C. & I. Miller    | 5-28       | Sal          | Frac       | 543           | --   | 4720        | Pool   | RT    |                   |
| 275                   | Rootstown   | L 34          | 460 SL 1757 WL  | Midland Exploration    | 1        | H. & G. Pimlott   |            |              |            |               |      |             | Pool   | RT    | Replaced by P-285 |
| 276                   | Edinburg    | L 17          | 400 NL 1460 WL  | Midland Exploration    | 1        | Benton Unrig      |            |              |            |               |      |             | Pool   | RT    | Replaced by P-283 |
| 277                   | Charlestown | L 3           | 1415 SL 1140 WL | K-Vill O. & G. Co.     | 1        | T. & L. Gentry    |            |              |            |               |      |             | Pool   | RT    | Replaced by P-284 |
| 278                   | Randolph    | L 77          | 480 NL 920 EL   | East Ohio Gas Co.      | 1        | F. & E. Waddell   |            |              |            |               |      |             | Pool   | RT    | Replaced by P-318 |
| 279                   | Randolph    | L 98          | 500 NL 700 WL   | East Ohio Gas Co.      | 1        | M. & C. Benich    |            |              |            |               |      |             | Pool   | RT    | Replaced by P-319 |
| 280                   | Rootstown   | L 36          | 800 SL 2320 WL  | El Paso Nat. Gas Prod. | 1        | D. & M. Craig     | 3-29       | Sal          | Frac       | 2146          | --   | 4525        | Pool   | RT    |                   |
| 281                   | Rootstown   | L 36          | 1169 NL 1507 WL | El Paso Nat. Gas Prod. | 1        | R. M. Rinehart    | 3-27       | Sal          | Frac       | 2718          | --   | 4515        | Pool   | RT    |                   |
| 282                   | Randolph    | L 37          | 400 NL 925 EL   | Huron Exploration      | 1        | F. & J. Kidikas   | 3-23       | Sal          | --         | --            | --   | 4750        | Pool   | RT    | Replaces P-272    |
| 283                   | Edinburg    | L 17          | 400 NL 1460 WL  | Midland Exploration    | 1        | Benton Unrig      | 3-27       | --           | --         | --            | --   | --          | Pool   | RT    | Lost hole 120 ft. |
| 284                   | Charlestown | L 3           | 1435 SL 1240 WL | K-Vill O. & G. Co.     | 1        | T. & L. Gentry    | 4-6        | Sal          | Frac       | 1260          | 15   | 4455        | Pool   | RT    | Replaces P-277    |
| 285                   | Rootstown   | L 34          | 50 SL 1475 WL   | Midland Exploration    | 1        | H. & E. Pimlott   | 4-13       | Sal          | Frac       | 1166          | --   | 4550        | Pool   | RT    | Replaces P-275    |
| 286                   | Randolph    | L 64          | 1300 SL 720 EL  | Huron Exploration      | 1        | H. Badgley        | 4-21       | Sal          | Frac       | 1260          | --   | 4730        | Pool   | RT    |                   |
| 287                   | Edinburg    | L 15          | 750 SL 330 EL   | Midland Exploration    | 1        | C. & C. Jacobs    | 4-25       | Sal          | Frac       | 850           | --   | 4657        | Pool   | RT    |                   |
| 288                   | Charlestown | L 35          | 700 NL 685 EL   | Mutual O. & G. Co.     | 2        | R. W. Strausser   | 4-30       | Sal          | Frac       | --            | 20   | 4500        | Pool   | RT    |                   |
| 289                   | Edinburg    | L 6-NE        | 855 SL 1410 EL  | K-Vill O. & G. Co.     | 1        | Sanders-Davis     | 5-15       | Sal          | Frac       | 301           | --   | 4684        | Pool   | RT    |                   |
| 290                   | Randolph    | L 54          | 650 NL 200 EL   | Huron Exploration      | 1        | C. & I. Miller    | 5-28       | Sal          | Frac       | 543           | --   | 4720        | Pool   | RT    |                   |
| 291                   | Randolph    | L 45          | 400 SL 550 EL   | Belden & Blake & Co.   | 1        | Michael Herchek   | 5-12       | Sal          | Frac       | 304           | 45   | 4650        | Pool   | RT    |                   |
| 292                   | Randolph    | L 45          | 400 SL 300 WL   | Belden & Blake & Co.   | 1        | A. & H. Moger     |            |              |            |               |      |             | Pool   | RT    | Abd. loc.         |
| 293                   | Randolph    | L 73          | 1150 SL 1660 EL | Belden & Blake & Co.   | 1        | E. & V. Roundy    | 5-25       | Sal          | Frac       | 1812          | --   | 4620        | Pool   | RT    |                   |
| 294                   | Edinburg    | L 1-NE        | 600 SL 400 EL   | K-Vill O. & G. Co.     | 1        | Sanders-Davis     | 5-29       | Sal          | Frac       | 1387          | --   | 4620        | Pool   | RT    |                   |
| 295                   | Deerfield   | L 99          | 1065 NL 1460 WL | Midland Exploration    | 1        | Posey-Trowbridge  | 6-1        | Sal          | Frac       | 1166          | --   | 4860        | Pool   | RT    |                   |
| 296                   | Edinburg    | L 9-SE        | 905 NL 250 EL   | Midland Exploration    | 1        | Reed-Bryan        | 8-13       | Sal          | Frac       | 2035          | --   | 4790        | Pool   | RT    |                   |
| 297                   | Edinburg    | L 7-SW        | 698 SL 1350 WL  | Midland Exploration    | 1        | D. & R. Henceroth | 6-27       | Sal          | Frac       | 3072          | --   | 4770        | Pool   | RT    |                   |
| 298                   | Randolph    | L 73          | 350 NL 410 EL   | Belden & Blake & Co.   | 1        | H. & B. Kerns     | 6-6        | Sal          | Frac       | 6314          | --   | 4643        | Pool   | RT    |                   |
| 299                   | Atwater     | L 127         | 750 SL 890 EL   | Midland Exploration    | 1        | E. & M. Woodall   | 6-11       | Sal          | Frac       | 602           | --   | 4785        | Pool   | RT    |                   |
| 300                   | Randolph    | L 33          | 500 NL 500 WL   | Huron Exploration      | 1        | Keller            | 6-19       | Sal          | Frac       | 2243          | --   | 4740        | Pool   | RT    |                   |
| 301                   | Rootstown   | L 33          | 620 SL 330 EL   | Duty Oil Co.           | 1        | Barr-Kelly        | 7-14       | Sal          | Frac       | 2629          | --   | 4556        | Pool   | RT    |                   |
| 302                   | Randolph    | L 43          | 800 SL 1032 EL  | Huron Exploration      | 1        | J. R. Manholt     | 6-30       | Sal          | Frac       | 129           | --   | 4808        | Pool   | RT    |                   |
| 303                   | Rootstown   | L 9           | 1150 NL 880 EL  | Atlas Minerals Corp.   | 1        | Robert Phile      | 7-8        | Sal          | Frac       | 1904          | --   | 4575        | Pool   | RT    |                   |
| 304                   | Edinburg    | L 1-NE        | 645 SL 500 WL   | K-Vill O. & G. Co.     | 1        | Martin-Ensinger   | 8-16       | Sal          | Frac       | 476           | 10   | 4590        | Pool   | RT    |                   |
| 305                   | Edinburg    | L 1-NE        | 100 NL 650 EL   | K-Vill O. & G. Co.     | 2        | Martin-Ensinger   | 9-?        | Sal          | Frac       | 500           | 5    | 4580        | Pool   | RT    |                   |



## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township  | Land Division | Location        | Operator             | Well No. | Lease               | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|-----------------------|-----------|---------------|-----------------|----------------------|----------|---------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                       |           |               |                 |                      |          |                     |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| PORTAGE COUNTY (con.) |           |               |                 |                      |          |                     |            |              |            |               |      |             |        |       |                    |
| 306                   | Randolph  | L 57          | 230 SL 460 WL   | Huron Exploration    | 1        | A. & A. Rothermal   | 11-?       | Sal          | Frac       | 500           | --   | 4520        | Pool   | RT    |                    |
| 307                   | Atwater   | L 68          | 255 SL 1260 EL  | Midland Exploration  | 1        | M. & T. Ries, Jr.   | 7-9        | Sal          | Frac       | 638           | --   | 4795        | Pool   | RT    |                    |
| 308                   | Randolph  | L 72          | 530 SL 400 WL   | Belden & Blake & Co. | 1        | R. & O. McCoy       | 7-19       | Sal          | Frac       | 1172          | --   | 4660        | Pool   | RT    |                    |
| 309                   | Edinburg  | L 8-SW        | 660 NL 1537 WL  | Midland Exploration  | 1        | Kirkland-White      | 8-1        | Sal          | Frac       | 301           | --   | 4700        | Pool   | RT    |                    |
| 310                   | Atwater   | L 127         | 1100 NL 900 WL  | Midland Exploration  | 1        | E. & E. Moff        | 7-21       | Sal          | Frac       | 521           | --   | 4738        | Pool   | RT    |                    |
| 311                   | Atwater   | SW            | 863 NL 2138 EL  | East Ohio Gas Co.    | 1        | Frank Whittlesey    | 9-?        | Sal          | Frac       | 500           | --   | 4834        | Pool   | RT    |                    |
| 312                   | Atwater   | L 6           | 1050 NL 650 EL  | Midland Exploration  | 1        | P. & W. Karas       | 9-1        | Sal          | --         | --            | --   | 4900        | Pool   | RT    |                    |
| 313                   | Atwater   | L 125         | 1050 NL 1150 WL | Midland Exploration  | 1        | L. & M. Henry       |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 314                   | Deerfield | L 97          | 1250 SL 760 WL  | Midland Exploration  | 1        | P. & M. Twark       | 8-24       | Sal          | Frac       | 500           | 10   | 4860        | Pool   | RT    |                    |
| 315                   | Randolph  | L 97          | 1425 NL 775 WL  | East Ohio Gas Co.    | 2        | A. Roger            | 9-15       | Sal          | Frac       | 3809          | --   | 4464        | Pool   | RT    | Replaces P-265     |
| 316                   | Franklin  | L 18          | 500 SL 1277 WL  | H. D. Collins        | 1        | J. & V. Truax       | 10-14      | Sal          | Frac       | 256           | --   | 4182        | Pool   | CT    |                    |
| 317                   | Rootstown | L 4           | 0 NL 462 WL     | Wiser Oil Co.        | 1        | T. & P. Klegg       | 10-21      | Sal          | Frac       | 261           | --   | 4505        | Pool   | CT    |                    |
| 318                   | Randolph  | L 77          | 326 NL 919 EL   | East Ohio Gas Co.    | 1        | F. & E. Waddell     | 9-18       | Sal          | Frac       | 862           | --   | 4499        | Pool   | RT    | Replaces P-278     |
| 319                   | Randolph  | L 98          | 500 NL 700 WL   | East Ohio Gas Co.    | 1        | M. & C. Benich      | 9-11       | Sal          | Frac       | 7140          | --   | 4444        | Pool   | RT    | Replaces P-279     |
| 320                   | Edinburg  | L 1-NE        | 400 NL 600 WL   | K-Vill O. & G. Co.   | 1        | E. & N. Presley     | 9-15       | Sal          | Frac       | 753           | 12   | 4510        | Pool   | RT    |                    |
| 321                   | Edinburg  | L 7-SW        | 395 SL 1190 EL  | Midland Exploration  | 1        | W. & W. Freeman     | 9-14       | Sal          | Frac       | 476           | --   | 4775        | Pool   | RT    |                    |
| 322                   | Randolph  | L 82          | 378 SL 1508 WL  | East Ohio Gas Co.    | 1        | G. Riemenschneider  | 9-30       | Sal          | Frac       | 271           | --   | 4719        | Pool   | RT    |                    |
| 323                   | Randolph  | L 1           | 1354 SL 601 EL  | East Ohio Gas Co.    | 1        | L. & M. Wolf        | 10-3       | Sal          | --         | --            | --   | 4754        | Pool   | RT    |                    |
| 324                   | Edinburg  | L 2-NE        | 1959 SL 920 WL  | K-Vill O. & G. Co.   | 1        | Sterling Evans      | 9-24       | Sal          | Frac       | 500           | 10   | 4580        | Pool   | RT    |                    |
| 325                   | Randolph  | L 89          | 1470 NL 920 WL  | Belden & Blake & Co. | 1        | H. & I. McCafferty  | 10-2       | Sal          | Frac       | 213           | --   | 4428        | Pool   | RT    |                    |
| 326                   | Randolph  | L 57          | 490 NL 55 EL    | Belden & Blake & Co. | 1        | D. & L. Wilson      |            |              |            |               |      |             | Pool   | RT    | Canceled           |
| 327                   | Randolph  | L 43          | 660 NL 333 WL   | Belden & Blake & Co. | 1        | R. & S. Rodenbucher | 9-24       | Sal          | Frac       | 251           | 5    | 4635        | Pool   | RT    |                    |
| 328                   | Deerfield | L 23          | 461 NL 999 EL   | Atlas Minerals Corp. | 1        | R. L. Hartzell      | 10-8       | Sal          | Frac       | 1900          | --   | 4974        | Pool   | RT    |                    |
| 329                   | Edinburg  | L 2-NE        | 150 SL 330 EL   | K-Vill O. & G. Co.   | 1        | B. & M. Foster      | 10-8       | Sal          | Frac       | 1166          | 15   | 4633        | Pool   | RT    |                    |
| 330                   | Rootstown | L 10          | 900 SL 660 EL   | Midland Exploration  | 1        | Charles Bello       | 9-28       | Sal          | Frac       | 2806          | --   | 4630        | Pool   | RT    |                    |
| 331                   | Randolph  | L 53          | 880 SL 450 EL   | Belden & Blake & Co. | 1        | Lee Harris          | 10-11      | Sal          | Frac       | 476           | --   | 4660        | Pool   | RT    |                    |
| 332                   | Suffield  | L 5           | 565 SL 9 EL     | East Ohio Gas Co.    | 1        | C. & H. Keller      | 10-13      | Sal          | Frac       | 326           | --   | 4417        | Out    | RT    |                    |
| 333                   | Rootstown | L 48          | 608 SL 1335 WL  | East Ohio Gas Co.    | 1        | N. & E. Hanna       | 10-27      | Sal          | Frac       | 3807          | --   | 4414        | Pool   | RT    |                    |
| 334                   | Edinburg  | L 17-NW       | 400 NL 1236 EL  | Midland Exploration  | 1-A      | Benton Uhrig        | 10-10      | Sal          | Frac       | 350           | 5    | 4620        | Pool   | RT    |                    |
| 335                   | Rootstown | L 27          | 1716 SL 253 WL  | East Ohio Gas Co.    | 1        | W. & F. Kline       | 10-14      | Sal          | Frac       | 3821          | --   | 4414        | Pool   | RT    |                    |
| 336                   | Randolph  | L 58          | 1377 SL 1200 WL | Belden & Blake & Co. | 1        | A. Rothermel        | 10-18      | Sal          | Frac       | 476           | --   | 4520        | Pool   | RT    |                    |
| 337                   | Atwater   | L 10          | 1080 NL 1658 WL | Midland Exploration  | 1        | C. W. Scott         | 10-22      | Sal          | Frac       | 400           | 20   | 4860        | Pool   | RT    |                    |
| 338                   | Edinburg  | L 2-NE        | 1368 SL 420 EL  | K-Vill O. & G. Co.   | 1        | P. Nestor, Jr.      | 10-17      | Sal          | Frac       | 1260          | 6    | 4580        | Pool   | RT    |                    |
| 339                   | Edinburg  | L 2-NE        | 1205 NL 585 WL  | K-Vill O. & G. Co.   | 2        | P. Nestor, Jr.      | 10-24      | Sal          | Frac       | 350           | 10   | 4560        | Pool   | RT    |                    |
| 340                   | Randolph  | L 34          | 700 SL 500 EL   | Belden & Blake & Co. | 1        | Albert Horning      | 10-27      | Sal          | Frac       | 106           | --   | 4685        | Pool   | RT    |                    |
| 341                   | Randolph  | L 72          | 1258 NL 2157 WL | Belden & Blake & Co. | 1        | H. & B. McCormick   | 11-1       | Dor          | Nat        | 649           | --   | 3195        | SPWC   | RT    | Discovery          |
| 342                   | Randolph  | L 33          | 1150 NL 450 EL  | Belden & Blake & Co. | 1        | Robert Pugh         | 11-1       | Sal          | Frac       | --            | --   | 4686        | Pool   | RT    |                    |
| 343                   | Edinburg  | L 5-NE        | 700 SL 450 EL   | K-Vill O. & G. Co.   | 1        | L. & C. Hunter      | 11-13      | Sal          | Frac       | 700           | --   | 4660        | Pool   | RT    |                    |
| 344                   | Edinburg  | L 6-NE        | 700 SL 1422 WL  | K-Vill O. & G. Co.   | 1        | R. & B. Haska       | 11-1       | Sal          | Frac       | 902           | 10   | 4690        | Pool   | RT    |                    |
| 345                   | Edinburg  | L 5-NE        | 900 NL 990 EL   | K-Vill O. & G. Co.   | 1        | Gladys Calvin       | 11-23      | Sal          | --         | --            | --   | 4591        | Pool   | RT    | Downhole explosion |
| 346                   | Rootstown | L 40          | 1200 SL 1050 EL | Midland Exploration  | 1        | D. & V. Miller      | 11-5       | Sal          | Frac       | 1781          | --   | 4415        | Pool   | RT    |                    |
| 347                   | Rootstown | L 33          | 1500 SL 980 WL  | Midland Exploration  | 1        | L. & A. Ricks       | 11-14      | Sal          | Frac       | 2370          | --   | 4368        | Pool   | RT    |                    |
| 348                   | Randolph  | L 57          | 330 NL 29 EL    | Belden & Blake & Co. | 1        | M. Stanford         | 11-15      | Sal          | Frac       | 369           | --   | 4568        | Pool   | RT    |                    |
| 349                   | Rootstown | L 27          | 1218 NL 1731 EL | W. Paul Hambelton    | 1        | F. & L. Duke        | 11-25      | Sal          | Frac       | 1754          | --   | 4418        | Pool   | RT    |                    |
| 350                   | Rootstown | L 22          | 1100 NL 144 WL  | W. Paul Hambelton    | 1        | W. G. Brannen       | 11-16      | Sal          | Frac       | 2074          | --   | 4515        | Pool   | RT    |                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number         | Township       | Land Division | Location        | Operator             | Well No.                  | Lease             | Date Comp.       | Deepest Unit | Type Comp. | Initial Prod. |     | Total Depth  | Class. | Tools | Remarks                      |   |
|-----------------------|----------------|---------------|-----------------|----------------------|---------------------------|-------------------|------------------|--------------|------------|---------------|-----|--------------|--------|-------|------------------------------|---|
| PORTAGE COUNTY (con.) |                |               |                 |                      |                           |                   |                  |              |            |               |     |              |        |       |                              |   |
| 351                   | Randolph       | L 62          | 371 NL 533 EL   | Belden & Blake & Co. | 1                         | James Spellman    | 11-27            | Sal          | Frac       | 5130          | --  | 4700         | Pool   | RT    | Active<br>Downhole explosion |   |
| 352                   | Deerfield      | L 23          | 1320 SL 250 WL  | Atlas Minerals Corp. | 2                         | R. Hartzell       |                  |              |            |               |     |              |        |       |                              |   |
| 353                   | Randolph       | L 62          | 857 SL 900 WL   | Belden & Blake & Co. | 1                         | S. & G. Unger     | 12-31            | Sal          | --         | --            | --  | 4666         | Pool   | RT    |                              |   |
| 354                   | Atwater        | L 31          | 280 NL 850 EL   | Midland Exploration  | 1                         | H. Dobrilovic     | 12-19            | Sal          | Nat        | 116           | --  | 4534         | Pool   | RT    |                              |   |
| 355                   | Randolph       | L 71          | 1538 NL 1355 WL | Belden & Blake & Co. | 1                         | J. & R. Freeman   | 12-31            | Sal          | Frac       | 2370          | --  | 4740         | Pool   | RT    |                              |   |
| 356                   | Atwater        | L 70          | 257 NL 1100 WL  | Midland Exploration  | 1                         | G. Craig          | 12-7             | Sal          | Frac       | 1915          | --  | 4810         | Pool   | RT    |                              |   |
| 357                   | Rootstown      | L 1           | 1546 SL 650 WL  | Midland Exploration  | 1                         | R. & G. Kommel    | 12-13            | Sal          | Frac       | 301           | --  | 4713         | Pool   | RT    |                              |   |
| 358                   | Edinburg       | L 8-SW        | 657 SL 500 EL   | Midland Exploration  | 1                         | H. & E. Minear    | 12-22            | Sal          | ?          | ?             | ?   | 4735         | Pool   | RT    |                              |   |
| 359                   | Rootstown      | L 2           | 730 SL 694 EL   | Midland Exploration  | 1                         | J. & N. Rice      | 12-29            | Sal          | --         | --            | --  | 4685         | Pool   | RT    |                              |   |
| 360                   | Edinburg       | L 5-NE        | 900 NL 1128 EL  | K-VIII O. & G. Co.   | 1-A                       | Gladys Calvin     | 12-15            | Sal          | Frac       | 1000          | 10  | 4715         | Pool   | RT    |                              |   |
| 361                   | Rootstown      | L 1           | 900 SL 900 EL   | Midland Exploration  | 1                         | L. M. Cale(Ney)   |                  |              |            |               |     |              | Pool   | RT    | Canceled<br>Active<br>Active |   |
| 362                   | Edinburg       | L 1-SW        | 1155 SL 780 EL  | Midland Exploration  | 1                         | E. Fausnaught     |                  |              |            |               |     |              | Pool   | RT    |                              |   |
| 363                   | Atwater        | L 9           | 980 SL 675 WL   | Midland Exploration  | 1                         | L. Sekel          |                  |              |            |               |     |              | Pool   | RT    |                              |   |
| SUMMARY               |                |               | GAS-77 OIL-2    | COMBINATION-21       |                           | DRY-9 TOTAL-109   |                  |              |            | 137,292       | 325 | 503,871 FEET |        |       |                              |   |
| OLD WELLS ABANDONED   |                |               |                 |                      |                           |                   |                  |              |            |               |     |              |        |       |                              |   |
| 128                   | Edinburg       | L 18-NW       | 600 NL 800 EL   | Walter W. Willis     | 1                         | M. & P. McConnell | 1962             | Snb          | Nat?       | 1900          | --  | 3972         | Pool   | CT    | Abd. 4-14                    |   |
| 214                   | Ravenna        | L 7-M         | 207 SL 1531 WL  | Kin-Ark Oil Co.      | 1                         | A. Thornton       | 1963             | Sal          | Frac       | 129           | --  | 4306         | Pool   | RT    | Abd. 2-22                    |   |
| SUMMARY               |                |               | ABANDONED-2     |                      |                           |                   |                  |              |            |               |     |              |        |       |                              |   |
| PUTNAM COUNTY         |                |               |                 |                      |                           |                   |                  |              |            |               |     |              |        |       |                              |   |
| 43                    | Perry          | S 17          | 230 SL 660 WL   | NE                   | James F. White            | 1                 | L. & P. Shafer   | 7-12         | Oil        | Acid          | --  | 20           | 1408   | FWC   | CT                           | Gas 83 MCF Discovery<br>PB to Oil 3 BPD<br>Active |
| 44                    | Union          | S 32          | 330 NL 330 EL   | SW                   | R. Hamblin & T & D Invest | 1                 | Eugene Riendel   | 9-13         | Oil        | Shot          | --  | --           | 2000   | FWC   | CT                           |   |
| 45                    | Perry          | S 45          | 990 SL 1650 WL  | NE                   | James F. White            | 2                 | L. & P. Shafer   |              |            |               |     |              |        | FWC   | CT                           |   |
| 46                    | Riley          | S 24          | 680 NL 870 WL   | SW                   | Frank M. Dever            | 1                 | A. Havenstein    | 10-23        | Oil        | --            | --  | --           | 1950   | FWC   | CT                           | Active  |
| 47                    | Perry          | S 23          | 1000 SL 330 WL  | SW                   | Ralph H. Hamblin          | 1                 | August Kahle     |              |            |               |     |              |        | FWC   | CT                           |   |
| SUMMARY               |                |               | GAS-0 OIL-1     | COMBINATION-0        |                           | DRY-2 TOTAL-3     |                  |              |            | 0             | 20  | 5,358 FEET   |        |       |                              |   |
| RICHLAND COUNTY       |                |               |                 |                      |                           |                   |                  |              |            |               |     |              |        |       |                              |   |
| 282                   | Perry          | S 22          | 330 SL 660 EL   | NE                   | Clyde R. Bowman           | 1                 | E. Seidner       | 1-5          | Oil        | Acid          | 532 | --           | 4174   | FWC   | CT                           | PB to Omc Discovery<br>Canceled                   |
| 283                   | Washington     | S 1           | 990 SL 330 EL   | SE                   | Donald L. Peterson        | 1                 | J. & L. Locke    |              |            |               |     |              |        | Pool  | CT                           |   |
| 284                   | Washington     | S 25          | 123 NL 1090 EL  | SE                   | E. C. McManaway           | 2                 | Ray Fulton       | 1-15         | Sal        | --            | --  | --           | 2664   | Pool  | CT                           |   |
| 285                   | Sharon         | S 24          | 900 NL 660 WL   | NW                   | Reliance Oil Corp.        | 1                 | Henry Gwirtz     | 3-21         | Oil        | --            | --  | --           | 3685   | FWC   | CT                           |   |
| 286                   | Blooming Grove | S 28          | 1420 NL 330 WL  | NE                   | Southern Triangle Oil     | 1                 | G. Barnd         | 3-6          | Oil        | --            | --  | --           | 4150   | FWC   | RT                           |   |
| 287                   | Troy           | S 26          | 1370 NL 400 WL  | SE                   | George M. Gernhardt       | 1                 | John Vanderbilt  | 4-20         | Oil        | --            | --  | --           | 4212   | Pool  | CT                           | Abd. loc.   |
| 288                   | Troy           | S 35          | 1800 SL 1600 WL | SW                   | Pan American Pet. Co.     | 2                 | W. Mertler       |              |            |               |     |              |        | Pool  | RT                           |   |
| 289                   | Troy           | S 35          | 1510 SL 330 EL  | NE                   | Pan American Pet. Co.     | 1                 | J. Palmer        | 3-21         | Oil        | --            | --  | --           | 4775   | Pool  | RT                           |   |
| 290                   | Washington     | S 25          | 510 SL 1390 EL  | NE                   | E. C. McManaway           | 2                 | Mary Delp        | 3-17         | Snb        | Nat           | 200 | --           | 2314   | NWC   | CT                           | Replaced by P-300                                 |
| 291                   | Worthington    | S 31          | 636 NL 402 EL   | SW                   | C. E. Ringler             | 1                 | Edward Nalezineh |              |            |               |     |              |        | Pool  | CT                           |   |

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township       | Land Division | Location        | Operator | Well No.                    | Lease | Date Comp.                     | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks             |
|------------------------|----------------|---------------|-----------------|----------|-----------------------------|-------|--------------------------------|--------------|------------|---------------|------|-------------|--------|-------|---------------------|
|                        |                |               |                 |          |                             |       |                                |              |            | MCFGPD        | BOPD |             |        |       |                     |
| RICHLAND COUNTY (con.) |                |               |                 |          |                             |       |                                |              |            |               |      |             |        |       |                     |
| 292                    | Troy           | S 27          | 1320 NL 640 WL  | NW       | Willard Oil Co.             | 1     | L. Fox                         |              |            |               |      |             | Out    | RT    | Abd. loc.           |
| 293                    | Jackson        | S 3           | 390 NL 370 WL   | SW       | Sun Oil; N. V. Duncan       | 1     | D. Hohler                      |              |            |               |      |             | FWC    | RT    | Replaced by P-297   |
| 294                    | Troy           | S 27          | 710 SL 250 EL   | NE       | R. H. Davidson              | 1     | J. D. Davidson                 | 3-10         | €cr        | --            | --   | 4150        | Pool   | CT    |                     |
| 295                    | Jefferson      | S 21          | 647 NL 420 EL   | SW       | T. Roy Wadkins              | 1     | C. Ross                        | 3-31         | €cr        | --            | --   | 4320        | Pool   | RT    |                     |
| 296                    | Troy           | S 35          | 1650 NL 330 WL  | NW       | Pan American Pet. Co.       | B-1   | N. Vogel                       | 4-9          | €cr        | --            | --   | 4325        | Pool   | RT    |                     |
| 297                    | Jackson        | S 3           | 330 NL 370 WL   | SW       | Sun Oil; N. V. Duncan       | 1     | D. Hohler                      | 4-14         | €cr        | --            | --   | 3920        | FWC    | RT    | Replaces P-293      |
| 298                    | Washington     | S 24          | 43 NL 1750 EL   | SE       | E. C. McManaway             | 1     | Peter Kovats                   | 4-24         | Snb        | Nat?          | 2000 | 2062        | Pool   | CT    |                     |
| 299                    | Troy           | S 34          | 1910 NL 400 EL  | NE       | Pan American Pet. Co.       | 2     | J. D. Davidson                 | 5-11         | €cr        | --            | --   | 4300        | Pool   | RT    |                     |
| 300                    | Worthington    | S 31          | 636 NL 402 EL   | SW       | C. E. Ringler               | 1     | Edward Nalezinck               | 6-2          | Sal        | --            | --   | 2675        | Pool   | CT    | Replaces P. -291    |
| 301                    | Monroe         | S 31          | 660 SL 480 EL   | NE       | Lake Shore Oil Co.          | 2     | V. & V. Cloes                  |              |            |               |      |             | FWC    | RT    | Abd. loc.           |
| 302                    | Weller         | S 17          | 337 SL 1067 EL  | SW       | H & F Oil Co.               | 1     | C. C. Baird                    |              |            |               |      |             | FWC    | CT    | Abd. loc.           |
| 303                    | Cass           | S 28          | 990 SL 990 WL   | SW       | Ralph H. Hamblin            | 1     | E. T. Davies                   | 6-29         | €cr        | --            | --   | 3885        | FWC    | CT    |                     |
| 304                    | Washington     | S 19          | 330 NL 1171 WL  | NW       | Morrow-Ashland-Richland     | 1     | R. Mentzer                     | 7-13         | €cr        | --            | --   | 4131        | FWC    | CT    |                     |
| 305                    | Jefferson      | S 27          | 1264 SL 575 EL  | SW       | E. C. McManaway             | 1     | C. & A. Staats                 | 6-9          | Sal        | --            | --   | 2500        | Pool   | CT    |                     |
| 306                    | Butler         | S 14          | 330 SL 1011 WL  | NE       | Bell & Cox                  | 1     | B. McCoy                       | 6-12         | S          | --            | --   | 1650        | FWC    | CT    |                     |
| 307                    | Blooming Grove | S 21          | 660 SL 820 EL   | SW       | Bell & Cox                  | 1     | R. A. Sutter                   |              |            |               |      |             | FWC    | CT    | Canceled            |
| 308                    | Troy           | S 33          | 1500 NL 1600 WL | NW       | Pan American Pet. Co.       | 1     | G. Gortner                     | 5-25         | €cr        | --            | --   | 4305        | Pool   | RT    |                     |
| 309                    | Springfield    | S 11          | 782 SL 493 EL   | SE       | Mohican Oil Co.             | 1     | R. & C. Bear                   | 7-21         | €cr        | --            | --   | 4109        | FWC    | CT    |                     |
| 310                    | Monroe         | S 19          | 433 NL 472 EL   | NW       | E. C. McManaway             | 1     | H. C. Tucker                   | 6-15         | Snb        | --            | --   | 2505        | Pool   | CT    |                     |
| 311                    | Washington     | S 29          | 1010 SL 330 WL  | SE       | Mansfield O. & Devel.       | 1     | E. & A. Edwards                | 6-16         | €cr        | --            | --   | 4435        | Pool   | RT    |                     |
| 312                    | Franklin       | S 15          | 330 SL 330 EL   | NW       | V. R. Gallagher             | 1     | R. & E. Oswalt                 | 7-8          | €cr        | --            | --   | 4275        | FWC    | RT    |                     |
| 313                    | Washington     | S 25          | 643 SL 1514 WL  | SW       | E. C. McManaway             | 1     | F. A. Jackson                  | 7-27         | Sal        | --            | --   | 2650        | Out    | CT    |                     |
| 314                    | Butler         | S 14          | 330 SL 1692 EL  | NE       | Bell & Cox                  | 1     | B. McCoy                       |              |            |               |      |             | FWC    | CT    | Replaced by P-374   |
| 315                    | Springfield    | S 10          | 260 SL 448 EL   | NE       | Mansfield O. & Devel.       | 1     | D. & O. Naber                  | 9-8          | €cr        | --            | --   | 4111        | FWC    | RT    |                     |
| 316                    | Springfield    | S 14          | 475 NL 1025 EL  | NE       | Mohican Oil Co.             | 1     | Springfield Dist. School Board | 9-7          | €cr        | --            | --   | 4214        | FWC    | CT    |                     |
| 317                    | Springfield    | S 10          | 1750 NL 1562 WL | NW       | Mohican Oil Co.             | 1     | H. & K. Scott                  | 9-7          | €cr        | --            | --   | 4120        | FWC    | CT    |                     |
| 318                    | Springfield    | S 11          | 300 SL 212 EL   | SE       | Mansfield O. & Devel.       | 1     | G. Smith                       | 8-21         | €cr        | --            | --   | 4227        | FWC    | RT    |                     |
| 319                    | Sandusky       | S 36          | 950 SL 399 WL   | NW       | M & M Producing Co.         | 1     | L. I. Christman                | 10-9         | €cr        | --            | --   | 3846        | FWC    | CT    |                     |
| 320                    | Washington     | S 12          | 600 SL 365 EL   | NE       | Terra Oil Co.               | 1     | E. & M. Spiess                 | 9-29         | Sal        | --            | --   | 2581        | Pool   | CT    |                     |
| 321                    | Weller         | S 17          | 990 NL 990 WL   | SE       | Sands Oil Corp.             | 1     | Arnold Kelley                  | 8-25         | €cr        | --            | --   | 4331        | FWC    | CT    |                     |
| 322                    | Jackson        | S 24          | 330 SL 1090 WL  | SE       | Sun Oil Co.                 | 1     | J. W. Stauffer                 | 8-21         | €cr        | --            | --   | 4185        | FWC    | RT    |                     |
| 323                    | Troy           | S 34          | 187 NL 1580 EL  | NE       | Hadson Ohio Oil Co.         | 1     | T. Augustine                   | 9-20         | €cr        | --            | --   | 4400        | Pool   | RT    |                     |
| 324                    | Blooming Grove | S 21          | 1390 SL 1710 WL | SW       | Obie Shaw                   | 1     | F. A. Sutter                   | 10-29        | €cr        | Acid          | 250  | 4097        | FWC    | RT    | Much Wtr. Discovery |
| 325                    | Cass           | S 26          | 330 NL 990 EL   | NE       | Mutual O. & G. Co.          | 1     | P. & D. McGregor               | 10-31        | €cr        | --            | --   | 3991        | FWC    | CT    |                     |
| 326                    | Jefferson      | S 19          | 390 NL 1192 EL  | SE       | Jack P. Van Norman          | 1     | E. & G. Soliday                | 9-21         | €cr        | --            | --   | 4285        | FWC    | RT    |                     |
| 327                    | Springfield    | S 10          | 230 NL 1085 WL  | SW       | Mansfield O. & Devel.       | 1     | Roy Daugherty                  |              |            |               |      |             | FWC    | RT    | Abd. loc.           |
| 328                    | Washington     | S 36          | 577 NL 628 WL   | NE       | E. C. McManaway             | 1     | R. & L. Walters                | 10-27        | Sal        | --            | --   | 2592        | Out    | CT    |                     |
| 329                    | Butler         | S 29          | 650 NL 1050 EL  | NE       | Huron Exploration           | 1     | C. & A. Evel                   | 11-18        | €cr        | --            | --   | 4500        | FWC    | RT    |                     |
| 330                    | Perry          | S 27          | 230 SL 2410 EL  | SE       | T & W Dig. Co.              | 1     | S. & E. Burgett                | 11-?         | €cr        | --            | --   | 4129        | FWC    | RT    |                     |
| 331                    | Plymouth       | S 26          | 230 NL 230 EL   | SW       | McClure Oil Co.             | 1     | B. & N. Baker                  | 12-17        | €cr        | --            | --   | 3575        | FWC    | RT    |                     |
| 332                    | Monroe         | S 19          | 960 SL 1020 WL  | NE       | E. C. McManaway             | 1     | R. W. Tucker                   | 12-7         | Sal        | --            | --   | 2489        | Pool   | CT    |                     |
| 333                    | Butler         | S 23          | 402 SL 635 WL   | SE       | Mt. Carmel Dig. Co.         | 1     | C. & A. Martin                 | 12-20        | €cr        | --            | --   | 4262        | FWC    | CT    |                     |
| 334                    | Blooming Grove | S 21          | 930 SL 741 WL   | SW       | Obie Shaw (Bell & Morrison) | 1     | D. Hammon                      |              |            |               |      |             | Pool   | RT    | Active              |

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|------------------------|------------|---------------|-----------------|-------|---------------------------|----------|--------------------|------------|--------------|------------|---------------|------|--------------|--------|-----------------|-----------------|
|                        |            |               |                 |       |                           |          |                    |            |              |            | MCFGPD        | BOPD |              |        |                 |                 |
| RICHLAND COUNTY (con.) |            |               |                 |       |                           |          |                    |            |              |            |               |      |              |        |                 |                 |
| 335                    | Jackson    | S 4           | 660 NL 230 EL   | SE    | Sun Oil; W. Duncan        | 1        | H. Chew            | 12-30      | €cr          | --         | --            | --   | 3915         | FWC    | RT              | Active          |
| 336                    | Perry      | S 22          | 316 NL 612 EL   | SE    | Stocker & Sitler          | 1        | L. Gram            | 12-31      | €cr          | --         | --            | --   | 4248         | Pool   | RT              |                 |
| 337                    | Jackson    | S 10          | 1090 NL 2180 EL | NE    | Sun Oil Co.               | 1        | B. White           |            |              |            |               |      |              | FWC    | RT              |                 |
| 338                    | Monroe     | S 31          | 1985 NL 530 EL  | NW    | E. C. McManaway           | 1        | I. & M. Rider      |            |              |            |               |      |              | Pool   | CT              |                 |
|                        |            | SUMMARY       | GAS-4*          | OIL-0 | COMBINATION-0             |          | DRY-41 TOTAL-45    |            |              |            | 2,982         | 0    | 168,856 FEET |        |                 |                 |
| OLD WELLS ABANDONED    |            |               |                 |       |                           |          |                    |            |              |            |               |      |              |        |                 |                 |
| 266                    | Jefferson  | S 21          | 600 NL 200 WL   | SE    | Mammoth Prod. (McManaway) | 1        | Charles Ross       | 1963       | €cr          | Acid       | 50            | 25   | 4284         | FWC    | CT              | Abd. 12-10      |
| 276                    | Jefferson  | S 21          | 330 SL 330 EL   | NE    | Mammoth Prod. Corp.       | 1        | R. D. McConkle     | 1963       | €cr          | --         | --            | --   | 4496         | Pool   | CT              | SWDW Abd. 12-23 |
|                        |            | SUMMARY       | ABANDONED-2     |       |                           |          |                    |            |              |            |               |      |              |        |                 |                 |
| ROSS COUNTY            |            |               |                 |       |                           |          |                    |            |              |            |               |      |              |        |                 |                 |
| 6                      | Harrison   | S 9           | 600 NL 600 WL   | SE    | B. A. Hall; D. Coffman    | 1        | D. & W. Coffman    | 7-6        | €cr          | --         | --            | --   | 3809         | FWC    | CT              | Active          |
| 7                      | Jefferson  | S 34          | 660 NL 660 EL   | NE    | Well Supervision, Inc.    | 1        | M. & B. Dyer       | 8-18       | €co          | --         | --            | --   | 4198         | FWC    | CT              |                 |
| 8                      | Green      | S 18          | 660 SL 660 EL   | SE    | Well Supervision, Inc.    | 1        | Mary Immel         | 8-24       | €ms          | --         | --            | --   | 4168         | FWC    | CT              |                 |
| 9                      | Concord    | VMSL ?        | 3200 SL 8200 WL | Twp.  | Crest Oil Co.             | 1        | O. & O. Clark      | 12-30      | PE           | --         | --            | --   | 3863         | FWC    | RT              |                 |
| 10                     | Colerain   | S 9           | 1970 NL 2000 EL | NE    | Hammerstone;Hadson        | 1        | Adam Shaal         | 12-5       | €cr          | --         | --            | --   | 3611         | FWC    | RT              | Active          |
| 11                     | Colerain   | S 19          | 660 NL 660 WL   | NW    | Hammerstone;Hadson        | 1        | D. L. Zeigler      | 12-19      | €cr          | --         | --            | 2458 | FWC          | RT     |                 |                 |
| 12                     | Deerfield  | VMSL 599      | 100 SL 8950 WL  | Twp.  | Amerada Pet. Co.          | 1        | Albert Borreson    |            |              |            |               |      | FWC          | RT     |                 |                 |
| 13                     | Harrison   | S 30          | 660 NL 660 EL   | NW    | Hammerstone;Hadson        | 1        | H. L. Carper       |            |              |            |               |      | FWC          | RT     |                 |                 |
| 14                     | Liberty    | S 9           | 660 SL 660 WL   | SW    | Hammerstone;Hadson        | 1        | K. C. Cryder       |            |              |            |               |      | FWC          | RT     |                 |                 |
| 15                     | Colerain   | S 31          | 660 SL 680 EL   | SW    | Hammerstone;Hadson        | 1        | A. Barnhart        |            |              |            |               |      | FWC          | RT     | Active          |                 |
| 16                     | Green      | S 28          | 660 SL 660 EL   | NW    | Hammerstone;Hadson        | 1        | F. R. Conaway      |            |              |            |               |      |              | FWC    | RT              | Active          |
| 17                     | Colerain   | S 35          | 660 SL 660 EL   | SE    | Hammerstone;Hadson        | 1        | Tar Hollow State   |            |              |            |               |      |              | FWC    | RT              | Active          |
|                        |            | SUMMARY       | GAS-0           | OIL-0 | COMBINATION-0             |          | DRY-6 TOTAL-6      |            |              |            | 0             | 0    | 22,107 FEET  |        |                 |                 |
| SANDUSKY COUNTY        |            |               |                 |       |                           |          |                    |            |              |            |               |      |              |        |                 |                 |
| 114                    | Madison    | S 24          | 700 SL 1020 EL  | SE    | Oscar Hoffman Oil Co.     | 1        | Gibsonburg Club    | 5-11       | €cr          | --         | --            | 2316 | FWC          | CT     | OW Abd. 9 wells |                 |
| 115                    | Washington | S 31-S        | --              |       | Beuna E. Keller           | --       | B. E. Keller       |            |              |            |               |      |              |        |                 |                 |
| 116                    | Jackson    | S 25          | 660 NL 660 EL   | SW    | Tri-State Prod. Co.       | 1        | R. & D. Willoughby |            |              |            |               |      |              |        |                 |                 |
| 117                    | Washington | S 31-N        | 230 NL 330 EL   | SE    | E. J. Dunigan, Jr.        | 1        | E. & D. Avers      |            |              |            |               |      |              |        |                 |                 |
| 118                    | Jackson    | S 11          | 330 SL 1650 WL  | SW    | Burrell Pet. Co.          | 1        | Carl Gabel         | 8-27       | €cr          | --         | --            | --   | 2250         | FWC    | CT              | OW Abd. 2 wells |
| 119                    | Madison    | S 18          | 1120 NL 1520 EL | NE    | Kahler Oil Co.            | 1        | Richard Dejsner    | 12-4       | €cr          | --         | --            | 2139 | Pool         | CT     |                 |                 |
| 120                    | Madison    | S 18          | 2040 NL 1520 WL | NW    | Kahler Oil Co.            | 2        | Arthur Davis       |            |              |            |               |      | Pool         | CT     |                 |                 |
| 121                    | Jackson    | S 6           | --              |       | Oscar Hoffman Oil Co.     | --       | John Rinehart      |            |              |            |               |      | Pool         | CT     |                 |                 |
| 122                    | Washington | S 21          | 1940 SL 1120 WL | SW    | L. P. Nieset              | 1        | R. Strausmyer      |            |              |            |               |      | Pool         | CT     |                 |                 |
| 123                    | Ballville  | S 29          | 1320 SL 230 EL  | SE    | Emme Oil Co.              | 2        | J. Cunningham      |            |              |            |               |      | FWC          | CT     |                 |                 |

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township   | Land Division | Location        |       | Operator              | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks               |
|------------------------|------------|---------------|-----------------|-------|-----------------------|----------|--------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-----------------------|
|                        |            |               |                 |       |                       |          |                    |            |              |            | MCFGPD        | BOPD |             |        |       |                       |
| SANDUSKY COUNTY (con.) |            |               |                 |       |                       |          |                    |            |              |            |               |      |             |        |       |                       |
| 124                    | Townsend   | S 3           | 830 NL 1070 WL  | NW    | L. Harris; M. Schulz  | 1        | George Meggitt     |            |              |            |               |      |             | FWC    | CT    | Active                |
| 125                    | Madison    | S 24          | 475 NL 545 WL   | NW    | L. P. Nieset          | 1        | L. P. Nieset       |            |              |            |               |      |             | Pool   | CT    | OW Abd.               |
| 126                    | Ballville  | S 31          | 660 NL 1320 WL  | SW    | C. & E. Oil Co.       | 1        | R. C. Recker       |            |              |            |               |      |             | FWC    | CT    | Active                |
|                        |            | SUMMARY       | GAS-0           | OIL-0 | COMBINATION-0         |          | DRY-4              | TOTAL-4    |              |            | 0             | 0    | 9,426       | FEET   |       |                       |
| OLD WELLS ABANDONED    |            |               |                 |       |                       |          |                    |            |              |            |               |      |             |        |       |                       |
| 100-3                  | Jackson    | S 19          | 2440 SL 800 EL  | SE    | R. Nieset             | 3        | Z. Wasserman       | ?          | Ot           | ?          | --            | ?    | 1250        | Pool   | CT    | Abd. 1-8              |
| 100-4                  | Jackson    | S 19          | 1840 SL 200 EL  | SE    | R. Nieset             | 4        | Z. Wasserman       | ?          | Ot           | ?          | --            | ?    | 1250        | Pool   | CT    | Abd. 1-23             |
| 107-3                  | Washington | S 35          | 2420 NL 610 WL  | NW    | E. & O. Longanbach    | 3        | E. & O. Longanbach | ?          | Ot           | ?          | --            | ?    | 1350        | Pool   | CT    | Abd. 1-8              |
| 107-4                  | Washington | S 35          | 2420 NL 1110 WL | NW    | E. & O. Longanbach    | 4        | E. & O. Longanbach | ?          | Ot           | ?          | --            | ?    | 1350        | Pool   | CT    | Abd. 1-23             |
| 112                    | Washington | S 30          | 1730 SL 1730 EL | SE    | Norman Schade         | 1-B      | H. W. Beatty       | ?          | Ot           | ?          | --            | ?    | 1250        | Pool   | CT    | Abd. 2-28             |
| 113                    | Washington | S 17          | 1500 NL 200 EL  | NE    | Oscar Hoffman Oil Co. | 5        | Roscoe Overmeyer   | ?          | Ot           | ?          | --            | ?    | 1300        | Pool   | CT    | Abd. 2-14             |
| 114                    | Madison    | S 24          | 700 SL 1020 EL  | SE    | Oscar Hoffman Oil Co. | 1        | Gibsonburg Club    | ?          | Ot           | ?          | --            | ?    | 1270        | Pool   | CT    | Abd. 2-17             |
| 115-1                  | Washington | S 31          | 700 SL 200 WL   |       | Buena E. Keller       | 1        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1270        | Pool   | CT    | Abd. 5-21             |
| 115-2                  | Washington | S 31          | 1200 SL 200 WL  |       | Buena E. Keller       | 2        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1270        | Pool   | CT    | Abd. 5-19             |
| 115-3                  | Washington | S 31          | 2200 SL 500 WL  |       | Buena E. Keller       | 3        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1280        | Pool   | CT    | Abd. 5-15             |
| 115-4                  | Washington | S 31          | 700 SL 700 WL   |       | Buena E. Keller       | 4        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1270        | Pool   | CT    | Abd. 6-2              |
| 115-5                  | Washington | S 31          | 1200 SL 700 WL  |       | Buena E. Keller       | 5        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1270        | Pool   | CT    | Abd. 5-26             |
| 115-6                  | Washington | S 31          | 950 SL 1000 WL  |       | Buena E. Keller       | 6        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1270        | Pool   | CT    | Abd. 6-18             |
| 115-7                  | Washington | S 31          | 850 SL 1400 WL  |       | Buena E. Keller       | 7        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1270        | Pool   | CT    | Abd. 6-23             |
| 115-8                  | Washington | S 31          | 1700 SL 1600 WL |       | Buena E. Keller       | 8        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1270        | Pool   | CT    | Abd. 7-28             |
| 115-9                  | Washington | S 31          | 2200 SL 1700 WL | SW    | Buena E. Keller       | 9        | B. E. Keller       | ?          | Ot           | ?          | --            | ?    | 1250        | Pool   | CT    | Abd. 8-3              |
| 119                    | Madison    | S 18          | 1120 NL 1520 EL | NE    | Kahler Oil Co.        | 1        | Richard Dejsner    | ?          | Ot           | ?          | --            | ?    | 1275        | Pool   | CT    | Abd. 12-15            |
| 120                    | Madison    | S 18          | 2040 NL 1520 WL | NW    | Kahler Oil Co.        | 2        | Arthur Davis       | ?          | Ot           | ?          | --            | ?    | ?           | Pool   | CT    | Abd. 12-4             |
| 121-3                  | Jackson    | S 6           | 250 NL 2000 WL  | SW    | Oscar Hoffman Oil Co. | 3        | John Rinehart      | ?          | Ot           | ?          | --            | ?    | 1240        | Pool   | CT    | Abd. 10-13            |
| 121-4                  | Jackson    | S 6           | 600 SL 2400 WL  | SW    | Oscar Hoffman Oil Co. | 4        | John Rinehart      | ?          | Ot           | ?          | --            | ?    | 1240        | Pool   | CT    | Abd. 10-22            |
| 122                    | Washington | S 21          | 1940 SL 1120 WL | SW    | L. P. Nieset          | 1        | Ruth Straysmyer    | ?          | Ot           | ?          | --            | ?    | 1230        | Pool   | CT    | Abd. 10-24            |
| 125                    | Madison    | S 24          | 475 NL 545 WL   | NW    | L. P. Nieset          | 1        | L. P. Nieset       | ?          | Ot           | ?          | --            | ?    | 1250        | Pool   | CT    | Abd. 12-18            |
|                        |            | SUMMARY       | ABANDONED-22    |       |                       |          |                    |            |              |            |               |      |             |        |       |                       |
| SCIOTO COUNTY          |            |               |                 |       |                       |          |                    |            |              |            |               |      |             |        |       |                       |
| 197                    | Madison    | S 14          | 330 NL 660 EL   | NW    | Carroll & Wilson      | 1        | Stella Lyons       | 2-?        | Sal          | --         | --            | --   | 2368        | FWC    | RT    | PB to Mbe. Gas 20 MCF |
| 201                    | Madison    | S 11          | 246 SL 380 EL   | SW    | Carroll & Wilson      | 1        | Roy Beadle         | 4-?        | Mwr          | Frac       | --            | 1    | 685         | Pool   | CT    |                       |
| 202                    | Harrison   | S 17          | 1150 SL 2100 EL | SE    | Young & Henneberger   | 1        | A. R. Will         | 4-23       | C            | --         | --            | --   | 4320        | FWC    | CT    |                       |
| 203                    | Madison    | S 14          | 350 NL 1060 EL  | NW    | Carroll & Wilson      | 2        | Stella Lyons       | 4-?        | Mwr          | Frac       | --            | 2    | 600         | Pool   | CT    | Gas 10 MCF Domestic   |
| 204                    | Madison    | S 8           | 1590 NL 1780 EL | NE    | E. A. Dudust          | 1        | W. & C. Wells      | 11-?       | Mwr          | --         | --            | --   | 350         | Pool   | CT    | Gas 9 MCF Domestic    |
|                        |            | SUMMARY       | GAS-0           | OIL-2 | COMBINATION-0         |          | DRY-3              | TOTAL-5    |              |            | 0             | 3    | 8,323       | FEET   |       |                       |

## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township   | Land Division | Location        |       | Operator               | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks      |
|---------------------|------------|---------------|-----------------|-------|------------------------|----------|--------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------|
|                     |            |               |                 |       |                        |          |                    |            |              |            | MCFGPD        | BOPD |             |        |       |              |
| SENECA COUNTY       |            |               |                 |       |                        |          |                    |            |              |            |               |      |             |        |       |              |
| 97                  | Scipio     | S 6           | 1790 SL 1320 WL | SW    | R. O. Pittman          | 1        | G. C. Miller       | 12-?       | €            | --         | --            | --   | 2545        | FWC    | CT    | Re-activated |
| 105                 | Pleasant   | S 36          | 970 SL 2600 WL  | SW    | Ashland O. & R. Co.    | 1        | Gaylord Hoppes     |            |              |            |               |      |             | FWC    | RT    | Canceled     |
| 106                 | Bloom      | S 34          | 660 SL 660 EL   | SE    | L. B. Jackson Co.      | 1        | M. E. Stuckey      | 2-7        | €co          | --         | --            | --   | 2930        | FWC    | RT    |              |
| 107                 | Pleasant   | S 28          | 660 NL 660 WL   | SE    | Tri-State Prod. Co.    | 1        | R. & I. Sanford    | 6-7        | €cr          | --         | --            | --   | 2273        | Pool   | CT    |              |
| 108                 | Pleasant   | S 24          | 660 SL 660 EL   | SW    | Tri-State Prod. Co.    | 1        | B. C. Robinson     | 2-25       | €cr          | --         | --            | --   | 2508        | NWC    | CT    |              |
| 109                 | Jackson    | S 9           | 200 NL 1100 EL  | NE    | E. N. Oberst           | 1        | M. A. Feasel       |            |              |            |               |      |             | Pool   | CT    | OW Abd.      |
| 110                 | Jackson    | S 9           | 1300 NL 1720 EL | NE    | E. N. Oberst           | 2        | C. & G. Berkmore   |            |              |            |               |      |             | Pool   | CT    | OW Abd.      |
| 111                 | Seneca     | S 22          | 990 NL 990 EL   | SE    | Plunkett & Shields     | 1        | S. & R. Cavanaugh  | 3-25       | €cr          | --         | --            | --   | 2324        | FWC    | RT    |              |
| 112                 | Pleasant   | S 35          | 1815 SL 990 WL  |       | Bretz & Bland          | 5        | K. Miller          |            |              |            |               |      |             | Pool   | CT    | OW Abd.      |
| 113                 | Scipio     | S 34          | 658 SL 347 WL   | SW    | Robert Wray            | 1-A      | C. & T. Gooding    | 9-8        | €cr          | --         | --            | --   | 2733        | FWC    | CT    |              |
| 114                 | Clinton    | S 7           | 1144 NL 576 WL  | NW    | P. L. Clarkson, Jr.    | 1        | H. E. Repp         | 6-24       | €cr          | --         | --            | --   | 2234        | Out    | RT    |              |
| 115                 | Clinton    | S 26          | 330 SL 330 EL   | NW    | Prior Oil Co.          | 1        | E. & L. Depinet    | 7-26       | €cr          | --         | --            | --   | 2374        | FWC    | CT    |              |
| 116                 | Pleasant   | S 33          | 270 NL 70 WL    | NW    | T. J. Hobson           | 1        | G. & W. Shaul      | 10-30      | €t           | Shot       | --            | --   | 1596        | Pool   | CT    | Oil 3 BPD    |
| 117                 | Pleasant   | S 17          | 230 SL 230 WL   | SW    | Pilgrim Oil Co.        | 1        | G. A. Smith        | 7-19       | €cr          | --         | --            | --   | 2197        | FWC    | RT    |              |
| 118                 | Pleasant   | S 26          | 430 NL 230 EL   | NW    | Shure Oil Corp.        | 1        | G. H. Oakleaf      |            |              |            |               |      |             | Out    | CT    | Active       |
| 119                 | Clinton    | S 8           | 1080 NL 850 WL  | NW    | T. J. Hobson           | 1        | Rose Shoffner      | 10-14      | €cr          | --         | --            | --   | 2112        | Pool   | CT    |              |
| 120                 | Scipio     | S 31          | 230 NL 705 EL   | SE    | Well Supervision, Inc. | 1        | Vincent Wurm       |            |              |            |               |      |             | FWC    | CT    | Active       |
| 121                 | Bloom      | S 26          | 330 SL 330 WL   | SW    | Mt. Carmel Dlg. Co.    | 1        | H. & B. Shook      |            |              |            |               |      |             | FWC    | RT    | Active       |
| 122                 | Pleasant   | S 27          | 915 NL 410 WL   | SW    | Algonquin Pet. Co.     | 1        | R. & I. Sanford    | 12-27      | €            | --         | --            | --   | 2350        | Pool   | CT    |              |
| 123                 | Hopewell   | S 12          | 310 NL 250 EL   | NE    | Stocker & Sittler      | 1        | L. R. Crum         |            | €            | --         | --            | --   | 2275        | NWC    | RT    |              |
| 124                 | Pleasant   | S 32          | 440 SL 220 WL   | NE    | T. J. Hobson           | 1        | Shaver-Shoffner    |            |              |            |               |      |             | Pool   | CT    | Active       |
| 125                 | Pleasant   | S 32          | 230 NL 1085 WL  | NE    | T. J. Hobson           | 1        | P. E. Molyet       |            |              |            |               |      |             | Pool   | CT    | Active       |
| 126                 | Pleasant   | S 33          | 370 NL 70 WL    | NW    | T. J. Hobson           | 1-A      | G. & W. Shaul      |            |              |            |               |      |             | Pool   | CT    | Active       |
| 127                 | Big Spring | S 30          | 1571 SL 770 WL  | SW    | Comanche Oil Co.       | 1        | Newcomer Lands     |            |              |            |               |      |             | FWC    | CT    | Active       |
|                     |            | SUMMARY       | GAS-0           | OIL-0 | COMBINATION-0          |          | DRY-13 TOTAL-13    |            |              |            | 0             | 0    | 30,451      | FEET   |       |              |
| OLD WELLS ABANDONED |            |               |                 |       |                        |          |                    |            |              |            |               |      |             |        |       |              |
| 109                 | Jackson    | S 9           | 200 NL 1100 EL  | NE    | E. N. Oberst           | 1        | M. A. Feasel       | ?          | €t           | ?          | --            | ?    | 1250        | Pool   | CT    | Abd. 4-13    |
| 110                 | Jackson    | S 9           | 1300 NL 1720 EL | NE    | E. N. Oberst           | 2        | C. & G. Berkmore   | ?          | €t           | ?          | --            | ?    | 1250        | Pool   | CT    | Abd. 4-23    |
| 112                 | Pleasant   | S 35          | 1815 SL 990 WL  | Farm  | Bretz & Bland          | 5        | K. Miller          | ?          | €t           | ?          | --            | ?    | 1480        | Pool   | CT    | Abd. 6-9     |
|                     |            | SUMMARY       | ABANDONED-3     |       |                        |          |                    |            |              |            |               |      |             |        |       |              |
| SHELBY COUNTY       |            |               |                 |       |                        |          |                    |            |              |            |               |      |             |        |       |              |
| 19                  | Cynthian   | S 15-E        | 920 NL 1050 WL  | NW    | F. & S. Lauber         | 4        | Joe Zimmerman      |            |              |            |               |      |             | Pool   | CT    | Abd. loc.    |
| 20                  | Salem      | S 17-E        | 990 SL 980 EL   | NE    | Fairway Pet. Corp.     | 1        | F. E. Motter       | 7-26       | €cr          | --         | --            | --   | 2427        | FWC    | RT    |              |
| 21                  | Cynthian   | S 14          | 435 SL 300 WL   | NW    | Lee J. Hilgeford       | 1        | Thomas Barlage     | 9-15       | €t           | Shot       | --            | 10   | 1340        | Pool   | CT    | Gas 50 MCF   |
| 22                  | Cynthian   | S 14          | 990 NL 2285 EL  | NE    | Hilgeford Prod. Co.    | 1        | Edward Benanzer    |            |              |            |               |      |             | FWC    | CT    | Active       |
| 23                  | Dinsmore   | S 18          | 1004 SL 344 EL  | SE    | Dee Oil Co.            | 1        | G. A. Becker & Son | 12-30      | €cr          | --         | --            | --   | 2000        | FWC    | CT    |              |
|                     |            | SUMMARY       | GAS-0           | OIL-1 | COMBINATION-0          |          | DRY-2 TOTAL-3      |            |              |            | 0             | 10   | 5,767       | FEET   |       |              |

## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township  | Land Division | Location       |       | Operator                | Well No. | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks                          |
|---------------------|-----------|---------------|----------------|-------|-------------------------|----------|------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|----------------------------------|
|                     |           |               |                |       |                         |          |                        |            |              |            | MCFGPD        | BOPD |             |        |       |                                  |
| STARK COUNTY        |           |               |                |       |                         |          |                        |            |              |            |               |      |             |        |       |                                  |
| 1068                | Pike      | S 27          | 109 NL 1200 WL | SE    | Wiser Oil Co.           | 1        | U. S. Ceramic Tile     | 1963       | Sal          | Frac       | 300           | --   | 4813        | Pool   | CT    | Gas 80 MCF Canceled              |
| 1069                | Perry     | S 28          | 742 NL 1205 EL | NW    | Dalton & Hanna          | 2        | P. & R. Cincinat       | 3-14       | Sal          | Frac?      | --            | 15   | 4338        | Pool   | CT    |                                  |
| 1070                | Plain     | S 27          | 602 SL 450 WL  | SW    | Ed. Martin              | 1        | Ed. Martin             |            |              |            |               |      |             | SPWC   | CT    |                                  |
| 1071                | Pike      | S 27          | 660 SL 1232 EL | NW    | Wiser Oil Co.           | 2        | U. S. Ceramic Tile     | 7-22       | Sal          | Frac       | 1250          | --   | 4828        | Pool   | CT    |                                  |
| 1072                | Marlboro  | S 26          | 626 SL 605 EL  | NW    | East Ohio Gas Co.       | 1        | F. & L. Warner         | 9-?        | Sal          | Frac       | ?             | --   | 4929        | Pool   | RT    |                                  |
| 1073                | Marlboro  | S 23          | 905 SL 651 EL  | NW    | East Ohio Gas Co.       | 1        | G. & H. Miller         | 8-31       | Sal          | Frac       | --            | --   | 4997        | Pool   | RT    | Active<br>Active<br>Active       |
| 1074                | Marlboro  | S 2           | 822 SL 1418 EL | NW    | East Ohio Gas Co.       | 1        | W. & A. Fox            | 9-25       | Sal          | --         | --            | --   | 4914        | Pool   | RT    |                                  |
| 1075                | Pike      | S 28          | 772 NL 388 EL  | SE    | Wiser Oil Co.           | 3        | U. S. Ceramic Tile     |            |              |            |               |      |             | Pool   | CT    |                                  |
| 1076                | Lake      | S 20          | 2000 SL 660 EL | SW    | K-Vill O. & G. Co.      | 1        | Jennie Brett           |            |              |            |               |      |             | Pool   | RT    |                                  |
| 1077                | Lake      | S 20          | 1947 SL 850 EL | SE    | K-Vill O. & G. Co.      | 1        | W. & E. Bennett        |            |              |            |               |      |             | Pool   | RT    |                                  |
| SUMMARY             |           |               | GAS-2          | OIL-1 | COMBINATION-0           |          | DRY-3                  | TOTAL-6    |              |            | 1,535         | 15   | 28,819      | FEET   |       |                                  |
| OLD WELLS ABANDONED |           |               |                |       |                         |          |                        |            |              |            |               |      |             |        |       |                                  |
| 129-A               | Perry     | S 2           | 600 NL 700 WL  | NW    | East Ohio Gas Co.       | 1        | J. M. Blake            | 1930       | Sal          | ?          | 250           | --   | 4392        | Pool   | CT    | Abd. 10-15                       |
| 146-A               | Jackson   | S 26          | 331 SL 251 WL  | SW    | F. Lyons(East Ohio Gas) | 1        | M. Taggart             | ?          | Sal          | ?          | ?             | --   | 4443        | Pool   | CT    | Abd. 10-8                        |
| 184-A               | Jackson   | S 26          | 450 NL 625 EL  | SE    | East Ohio Gas Co.       | 1        | J. C. Young            | ?          | Sal          | --         | --            | --   | 4434        | Pool   | CT    | Storage Abd. 9-10                |
| 199-A               | Jackson   | S 25          | 475 NL 342 WL  | NE    | Brendel                 | 1        | W. Reikowski           | 1932       | Sal          | ?          | ?             | --   | 4443        | Pool   | CT    | Abd. 7-16                        |
| 212-A               | Plain     | S 8           | 536 SL 380 EL  | SE    | East Ohio Gas Co.       | 2        | J. Marquardt           | 1933       | Sal          | ?          | ?             | --   | 4504        | Pool   | CT    | Abd. 11-9                        |
| 225-A               | Plain     | S 17          | 2000 SL 300 EL | SE    | East Ohio Gas Co.       | 2        | F. D. Willaman         | 1934       | Sal          | ?          | 2369          | --   | 4515        | Pool   | CT    | Abd. 2-18                        |
| 235-A               | Plain     | S 19          | 300 NL 310 EL  | SE    | East Ohio Gas Co.       | 1        | M. Gill                | 1933       | Sal          | ?          | ?             | --   | 4881        | Pool   | CT    | Abd. 10-27                       |
| 247                 | Pike      | S 9           | 500 NL 817 EL  | SE    | East Ohio Gas Co.       | 1        | R. Neisz               | 1943       | Sal          | ?          | 123           | --   | 4900        | Pool   | CT    | Abd. 11-23                       |
| 273                 | Pike      | S 16          | 1220 NL 810 EL | NE    | East Ohio Gas Co.       | 1        | J. McDannell           | 1944       | Sal          | ?          | 213           | --   | 4841        | Pool   | CT    | Abd. 12-8                        |
| 280                 | Pike      | S 17          | 415 NL 880 EL  | NE    | Ohio Fuel Gas Co.       | 1        | M. Schaffer(Neuman)    | 1944       | Sal          | Shot       | 464           | --   | 4798        | Pool   | CT    | Abd. 5-16                        |
| 309-A               | Plain     | S 17          | 540 NL 460 EL  | SE    | East Ohio Gas Co.       | 1        | R. Z. Staudt           | 1933       | Sal          | ?          | 1100          | --   | 4505        | Pool   | CT    | Abd. 1-30                        |
| 775                 | Pike      | S 20          | 1323 NL 400 WL | NW    | Ohio Fuel Gas Co.       | 2        | C. E. Neuman           | 1948       | Sal          | Shot       | 136           | --   | 4758        | Pool   | CT    | Abd. 4-20                        |
| 781                 | Bethlehem | S 3           | 530 SL 660 EL  | SW    | Wiser Oil Co.           | 3        | M. Werstler            | 1948       | Sal          | ?          | 942           | --   | 4580        | Pool   | CT    | Abd. 7-13                        |
| 912                 | Pike      | S 30          | 300 SL 170 WL  | NE    | Status Devel. Co.       | 1        | M. W. C. D.            | 1951       | Sal          | ?          | 134           | --   | 4608        | Pool   | CT    | Abd. 10-17                       |
| SUMMARY             |           |               | ABANDONED-14   |       |                         |          |                        |            |              |            |               |      |             |        |       |                                  |
| SUMMIT COUNTY       |           |               |                |       |                         |          |                        |            |              |            |               |      |             |        |       |                                  |
| 400                 | Franklin  | S 4           | 635 SL 852 WL  | SW    | Pittsburgh Plate Glass  | 19-A     | Pittsburgh Plate Glass | 7-20       | Sal          | Frac       | 125           | --   | 4391        | Pool   | CT    | Replaced by P-406                |
| 401                 | Green     | S 13          | 1560 NL 500 WL | NE    | H. & A. Gilbert         | 2        | H. & A. Gilbert        |            |              |            |               |      |             | Pool   | CT    |                                  |
| 402                 | Green     | S 13          | 330 SL 330 EL  | SE    | K-Vill O. & G. Co.      | 2        | J. W. Lauby            | 6-26       | Sal          | Frac       | 274           | 10   | 4427        | Pool   | RT    |                                  |
| 403                 | Green     | S 13          | 510 SL 562 WL  | SE    | K-Vill O. & G. Co.      | 3        | J. W. Lauby            | 7-5        | Sal          | Frac       | 550           | 20   | 4405        | Pool   | RT    |                                  |
| 404                 | Copley    | L 13          | 660 SL 685 EL  |       | Wiser Oil Co.           | 2        | William Smith          | 11-3       | Sal          | Shot       | 150           | --   | 3665        | Pool   | CT    |                                  |
| 405                 | Coventry  | L 10          | 360 SL 780 WL  | Prop. | Diamond Crystal Salt    | 16-A     | Diamond Crystal Salt   |            |              |            |               |      |             | Pool   | CT    | Brine well<br>Brine well. Active |
| 406                 | Franklin  | S 4           | 635 SL 852 WL  | SW    | Pittsburgh Plate Glass  | 19-A     | Pittsburgh Plate Glass |            |              |            |               |      |             | Pool   | CT    |                                  |
| 407                 | Green     | S 24          | 1200 SL 660 EL | NW    | K-Vill O. & G. Co.      | 1        | F. & G. Boettler       | 12-8       | Sal          | Frac       | 2035          | --   | 4420        | Pool   | RT    |                                  |
| 408                 | Green     | S 23          | 1035 NL 400 EL | NE    | K-Vill O. & G. Co.      | 1        | William Wise           | 12-23      | Sal          | Frac       | 1648          | 5    | 4440        | Pool   | RT    |                                  |
| 409                 | Green     | S 23          | 500 SL 500 WL  | NE    | K-Vill O. & G. Co.      | 2        | William Wise           | 12-18      | Sal          | Frac       | 500           | --   | 4467        | Pool   | RT    |                                  |
| SUMMARY             |           |               | GAS-4          | OIL-0 | COMBINATION-3           |          | DRY-0                  | TOTAL-7    |              |            | 5,282         | 35   | 30,215      | FEET   |       |                                  |

LIST OF OPERATIONS DURING 1964

| Permit Number        | Township   | Land Division | Location        | Operator                 | Well No.      | Lease                  | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |            | Total Depth | Class. | Tools | Remarks           |
|----------------------|------------|---------------|-----------------|--------------------------|---------------|------------------------|------------|--------------|------------|---------------|------------|-------------|--------|-------|-------------------|
|                      |            |               |                 |                          |               |                        |            |              |            | MCFGPD        | BOPD       |             |        |       |                   |
| SUMMIT COUNTY (con.) |            |               |                 |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| OLD WELLS ABANDONED  |            |               |                 |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| 75                   | Bath       | L 43 (2Q)     | 660 SL 660 WL   | Wiser Oil Co.            | 2             | J. S. Porter           | 1946       | Sal          | Shot       | 100           | --         | 3664        | Pool   | CT    | Abd. 5-12         |
| 339                  | Franklin   | S 8           | 642 SL 348 WL   | East Ohio Gas Co.        | 1             | H. & E. Woodall        | 1957       | Sal          | Frac       | 1369          | --         | 3970        | Pool   | CT    | Abd. 12-21        |
| 348                  | Green      | S 15          | 742 NL 424 WL   | East Ohio Gas Co.        | 1             | W. Groves(Anderson)    | 1958       | Sal          | Frac       | 1736          | --         | 4360        | Pool   | CT    | Abd. 12-18        |
| 377                  | Tallmadge  | L 6-SW        | 710 SL 1850 WL  | K-Vill O. & G. (Brannon) | 1             | H. G. Streitenberger   | 1961       | Sal          | Frac       | 1346          | --         | 4310        | Pool   | CT    | Abd. 2-13         |
|                      |            | SUMMARY       | ABANDONED-4     |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| BRINE WELLS          |            |               |                 |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| 400                  | Franklin   | S 4           | 635 SL 852 WL   | Pittsburgh Plate Glass   | 19-A          | Pittsburgh Plate Glass | 8-3        | Snb          | ?          | --            | --         | 2766        | Pool   | CT    | Replaced by P-406 |
| 405                  | Coventry   | L 10          | 360 SL 780 WL   | Diamond Crystal Salt     | 16-A          | Diamond Crystal Salt   |            |              |            |               |            |             | Pool   | CT    |                   |
| 406                  | Franklin   | S 4           | 635 SL 852 WL   | Pittsburgh Plate Glass   | 19-A          | Pittsburgh Plate Glass |            |              |            |               |            |             | Pool   | CT    | Active            |
|                      |            | SUMMARY       | BRINE-1         |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| TRUMBULL COUNTY      |            |               |                 |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| 18                   | Hubbard    | L 29          | 1265 SL 800 WL  | M. G. Bowman             | 1             | A. Lackwasky           | 6-20       | Sal          | Frac       | 1064          | --         | 5201        | FWC    | RT    | Discovery         |
| 19                   | Braceville | S 11          | 2100 SL 3235 WL | East Ohio Gas Co.        | 1             | F. & H. Pirtz          | 8-14       | Sal          | --         | --            | --         | 4490        | FWC    | RT    |                   |
|                      |            | SUMMARY       | GAS-1 OIL-1     | COMBINATION-0            | DRY-1 TOTAL-2 |                        |            |              | 1,064      | 0             | 9,691 FEET |             |        |       |                   |
| OLD WELL ABANDONED   |            |               |                 |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| 12                   | Hartford   | L 25          | 100 SL 1000 EL  | K. Miller Supply(Dinger) | 1             | H. & G. Blaney         | 1960       | Sal          | Frac       | 200           | 2          | 5025        | Pool   | CT    | Abd. 2-22         |
|                      |            | SUMMARY       | ABANDONED-1     |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| TUSCARAWAS COUNTY    |            |               |                 |                          |               |                        |            |              |            |               |            |             |        |       |                   |
| 896                  | York       | S 5           | 990 NL 330 WL   | Hallion Pet. Co.         | 1             | Hugo Mathias           | 1-7        | Sal          | Frac       | 700           | --         | 5140        | NWC    | RT    | Canceled          |
| 899                  | Warren     | S 35          | 820 NL 1605 WL  | Midland Exploration      | 1             | D. & W. Levengood      |            |              |            |               |            |             | Out    | RT    |                   |
| 900                  | Warren     | S 34          | 600 NL 1125 WL  | Midland Exploration      | 1             | F. & R. Benson         |            |              |            |               |            |             | Out    | RT    |                   |
| 902                  | Warren     | S 35          | 1600 NL 1250 WL | Midland Exploration      | 1             | E. J. Brown            | 1963       | Sal          | Frac       | 100           | 5          | 5119        | Pool   | RT    | Replaced by P-925 |
| 904                  | York       | S 5           | 300 NL 1310 WL  | Hallion Pet. Co.         | 3             | Hugo Mathias           | 2-8        | Mbe          | --         | --            | --         | 940         | Pool   | RT    |                   |
| 905                  | York       | L 7 (1Q)      | 360 NL 1025 WL  | Hallion Pet. Co.         | 1             | L. & P. Turner         | 3-17       | Mbe          | Shot       | 100           | --         | 837         | Pool   | RT    |                   |
| 906                  | York       | L 15 (4Q)     | 1005 NL 1313 WL | Hallion Pet. Co.         | 1             | G. & S. Gasser         | 1-23       | Sal          | --         | --            | --         | 5380        | Pool   | RT    | Replaced by P-921 |
| 907                  | Warren     | S 29          | 730 NL 780 EL   | Midland Exploration      | 1             | S. & M. Thrush         |            |              |            |               |            |             | FWC    | RT    |                   |
| 908                  | Clay       | S 19          | 595 NL 1820 EL  | S. M. Ebersbach          | 7             | Vernon Wolfe           |            |              |            |               |            |             | 5-8    | Mbe   |                   |
| 909                  | Clay       | S 19          | 595 NL 2450 EL  | S. M. Ebersbach          | 8             | Vernon Wolfe           |            |              |            |               |            |             | Pool   | CT    |                   |
| 910                  | Warren     | S 36          | 1000 SL 660 WL  | Midland Exploration      | 1             | D. & W. Levengood      | 3-30       | Mbe          | Shot?      | 281           | --         | 857         | Pool   | RT    | Replaced by P-920 |
| 911                  | Warren     | S 36          | 1025 NL 675 WL  | Midland Exploration      | 1             | G. & M. Maxwell        |            |              |            |               |            |             | Out    | RT    |                   |
| 912                  | York       | L 8 (3Q)      | 720 SL 190 WL   | Hallion Pet. Co.         | 1             | R. & D. Waldo          |            |              |            |               |            |             | Pool   | RT    |                   |
| 913                  | York       | L 1 (2Q)      | 519 NL 1639 WL  | Hallion Pet. Co.         | 4             | Hugo Mathias           | 5-11       | Mbe          | Shot?      | 750           | --         | 865         | Pool   | RT    | Canceled          |
| 914                  | York       | L 8 (3Q)      | 899 SL 180 WL   | Hallion Pet. Co.         | 1             | R. D. & D. J. Swaldo   |            |              |            |               |            |             | Pool   | CT    |                   |



## LIST OF OPERATIONS DURING 1964

| Permit Number            | Township   | Land Division | Location             | Operator                   | Well No. | Lease                   | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks           |
|--------------------------|------------|---------------|----------------------|----------------------------|----------|-------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-------------------|
|                          |            |               |                      |                            |          |                         |            |              |            | MCFGPD        | BOPD |             |        |       |                   |
| TUSCARAWAS COUNTY (con.) |            |               |                      |                            |          |                         |            |              |            |               |      |             |        |       |                   |
| 915                      | Perry      | S 20          | 810 SL 250 EL NW     | Midland Exploration        | 1        | D. F. Fitzgerald, Sr.   | 6-20       | Mbe          | Shot?      | 700           | --   | 984         | Pool   | CT    | Lost hole 410 ft. |
| 916                      | Warwick    | (3Q)          | 4030 SL 3840 EL Twp. | Findley Oil Co.            | 1        | Franklin Conklin        | 8-25       | Mbe          | --         | --            | --   | 1055        | Pool   | CT    |                   |
| 917                      | York       | L 1 (2Q)      | 172 SL 857 WL        | Hallion Pet. Co.           | 1        | P. & A. Espenschied     | 5-9        | Mbi          | --         | --            | --   | --          | Pool   | CT    |                   |
| 918                      | York       | L 1 (2Q)      | 177 SL 857 WL        | Hallion Pet. Co.           | 1-A      | P. & A. Espenschied     | 6-27       | Mbe          | Shot?      | 750           | --   | 828         | Pool   | CT    |                   |
| 919                      | Warren     | S 35          | 1980 SL 1750 WL SW   | Midland Exploration        | 1        | J. & V. Levengood       | 5-28       | Sal          | Frac       | 331           | --   | 5115        | Pool   | RT    |                   |
| 920                      | Warren     | S 36          | 100 SL 660 WL SW     | Midland Exploration        | 1        | D. & W. Levengood       | 6-6        | Sal          | Frac       | 369           | 30   | 5083        | Pool   | RT    | Replaces P-910    |
| 921                      | Clay       | S 19          | 595 NL 2450 EL NE    | S. M. Ebersbach            | 8        | Vernon Wolfe            | 6-20       | Mbe          | Shot       | --            | 5    | 1240        | Pool   | CT    | Replaces P-909    |
| 922                      | Warren     | S 36          | 510 NL 30 WL NE      | Midland Exploration        | 1        | C. & V. Hardwidge       | 6-16       | Sal          | Frac       | 3161          | --   | 5070        | Pool   | RT    |                   |
| 923                      | York       | L 16 (4Q)     | 806 NL 589 EL        | Hallion Pet. Co.           | 1        | W. & S. Mutti           | 6-?        | Mbe          | --         | --            | --   | 865         | Pool   | CT    |                   |
| 924                      | York       | (4Q)          | 519 NL 435 EL        | Hallion Pet. Co.           | 1        | D. & N. Wenger          | 7-1        | Mbe          | --         | --            | --   | 856         | Pool   | RT    |                   |
| 925                      | York       | L 15 (4Q)     | 1005 NL 1313 WL      | Hallion Pet. Co.           | 1        | G. & S. Gasser          | 6-9        | Mbe          | Shot?      | 750           | --   | 843         | Pool   | CT    | Replaces P-906    |
| 926                      | York       | L 9           | 263 SL 690 EL        | Hallion Pet. Co.           | 1        | V. & R. Mutti           | 7-6        | Mbe          | Shot       | --            | 1    | 882         | Pool   | CT    | Gas 37 MCF        |
| 927                      | Auburn     | S 23          | 195 NL 93 EL NW      | Michael T. Cowen           | 1        | M. & A. Troyer          | 8-1        | Mbe          | --         | --            | --   | 1010        | FWC    | CT    |                   |
| 928                      | York       | L 1           | 269 NL 184 EL        | Hallion Pet. Co.           | 1        | C. & E. Mutti           |            |              |            |               |      |             | Pool   | RT    | Canceled          |
| 929                      | Auburn     | S 3           | 330 NL 330 WL NW     | Michael T. Cowen           | 1        | A. & A. Troyer          | 9-18       | Mbe          | --         | --            | --   | 1222        | FWC    | CT    |                   |
| 930                      | Auburn     | S 13-E        | 15 SL 920 WL NW      | S. M. Ebersbach            | 1        | Ralph Everett           | 9-16       | Mbe          | --         | --            | --   | 1090        | Pool   | CT    |                   |
| 931                      | Warwick    | (3Q)          | 3755 SL 3330 EL Twp. | Findley Oil Co.            | 2        | Franklin Conklin        | 11-4       | Mbe          | --         | --            | --   | 1029        | Pool   | CT    |                   |
| 932                      | York       | L 9           | 660 SL 1270 EL       | Hallion Pet. Co.           | 2        | Vernon Mutti            | 8-20       | Mbe          | Shot       | --            | 3    | 922         | Pool   | CT    |                   |
| 933                      | Dover      | S 13          | 100Q SL 330 WL       | S. M. Ebersbach            | 4        | E. W. Funk              | 10-7       | Mbe          | Shot       | --            | 3    | 901         | Pool   | CT    |                   |
| 934                      | Goshen     | S 9           | 545 SL 485 EL NW     | Lloyd Smail                | 1        | T. & B. Ruby            | 11-9       | Mbe          | --         | --            | --   | 953         | Pool   | CT    |                   |
| 935                      | Warren     | S 1           | 902 SL 1190 EL NE    | Midland Exploration        | 1        | Ernest Gribi            | 12-1       | Sal          | Frac       | 2125          | 5    | 5110        | Pool   | CT    |                   |
| 936                      | Warren     | S 36          | 1210 NL 1565 EL NW   | Midland Exploration        | 1        | W. & G. Stotzer         | 12-13      | Sal          | Frac       | 1716          | 5    | 5116        | Pool   | CT    |                   |
| 937                      | Dover      | S 8           | 1365 SL1280 WL SE    | S. M. Ebersbach            | 3        | B. F. Widder            | 11-30      | Mbe          | Shot       | --            | 5    | 998         | Pool   | CT    |                   |
| 938                      | Clay       | L 11          | 200 NL 550 EL NE     | Findley Oil Co.            | 22       | J. D. Garabrandt        |            |              |            |               |      |             | Pool   | CT    | Active            |
| 939                      | York       | L 9 (3Q)      | 425 NL 1350 WL       | Hallion Pet. Co.           | 3        | E. & E. Mutti           |            |              |            |               |      |             | Pool   | CT    | Active            |
| 940                      | Fairfield  | S 6           | 800 NL 489 EL SE     | Midland Exploration        | 1        | Raymond Handrick        | 12-31      | Sal          | --         | --            | --   | 5150        | Pool   | RT    |                   |
| SUMMARY                  |            |               | GAS-9 OIL-6          | COMBINATION-4              |          | DRY-11 TOTAL-30         |            |              |            | 11,833        | 67   | 66,601      | FEET   |       |                   |
| OLD WELLS ABANDONED      |            |               |                      |                            |          |                         |            |              |            |               |      |             |        |       |                   |
| 30                       | Franklin   | S 17          | 660 SL 660 WL NE     | Ohio Fuel Gas Co.          | 1        | Sarah Weber             | 1937       | Sal          | ?          | ?             | ?    | 4638        | Pool   | CT    | Abd. 6-9          |
| 109                      | Sandy      | L 8 (3Q)      | 300 NL 700 WL        | Ohio Fuel(Nat. Gas W. Va.) | 2        | William Holshoy         | 1941       | Sal          | ?          | ?             | --   | 4881        | Pool   | CT    | Abd. 3-19         |
| 113                      | Sandy      | S 4           |                      | Ohio Fuel(Nat. Gas W. Va.) | 2        | L. S. Sweaney           | 1942       | Sal          | ?          | ?             | --   | 4669        | Pool   | CT    | Abd. 5-8          |
| 129                      | Lawrence   | (1Q)          | 7620 SL 4530 WL 1Q   | Ohio Fuel(Nat. Gas W. Va.) | 1        | A. W. Lebold            | 1942       | Sal          | ?          | ?             | --   | 4638        | Pool   | CT    | Abd. 3-31         |
| 138                      | Sandy      | S 13          | 540 NL 2000 WL NW    | Status Devel. Co.          | 1        | William Brinkman        | 1942       | Sal          | Shot       | 60            | --   | 4907        | Pool   | CT    | Abd. 10-5         |
| 320                      | Lawrence   | L 65 (4Q)     | 400 SL 800 EL        | Ohio Fuel(Nat. Gas W. Va.) | 1        | P. Baker (H. Lab)       | 1948       | Sal          | Shot       | 3465          | --   | 4658        | Pool   | CT    | Abd. 4-13         |
| 842                      | Mill       | L 24          | 137 SL 2033 WL       | Summerlea, Inc.            | 1        | U.S. Concrete Pipe Corp | 1961       | Mbe          | ?          | 26            | --   | 1295        | Pool   | CT    | Abd. 6-11         |
| 884                      | Washington | L 20 (3Q)     | 490 SL 500 WL        | K. Miller Supply           | 1        | Frank Quillen           | 1963       | Dor          | Acid       | 94            | 11   | 3640        | Pool   | CT    | Abd. 12-7         |
| SUMMARY                  |            |               | ABANDONED-8          |                            |          |                         |            |              |            |               |      |             |        |       |                   |

## LIST OF OPERATIONS DURING 1964

| Permit Number          | Township   | Land Division | Location              | Operator                | Well No. | Lease              | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks   |
|------------------------|------------|---------------|-----------------------|-------------------------|----------|--------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|-----------|
|                        |            |               |                       |                         |          |                    |            |              |            | MCFGPD        | BOPD |             |        |       |           |
| <b>UNION COUNTY</b>    |            |               |                       |                         |          |                    |            |              |            |               |      |             |        |       |           |
| 12                     | Claiborne  | VMSL 6293     | 10240 NL 8100 EL Twp. | Bernard L. Benton       | 1        | B. & V. Benton     |            |              |            |               |      |             | FWC    | RT    | Canceled  |
| 13                     | Washington | VMSL 10938    | 1245 NL 1380 EL       | T & W Oil Co.           | 1        | R. & A. Lane       | 7-28       | PC?          | --         | --            | --   | 2989        | FWC    | CT    |           |
| 14                     | Claiborne  | VMSL 7869     | 545 NL 330 EL         | Pan American Pet. Co.   | 1        | P. & M. Houck      | 6-18       | €cr          | --         | --            | --   | 3710        | FWC    | RT    |           |
| 15                     | Mill Creek | VMSL 2989     | 540 NL 3470 EL        | Texas Coastal Oil       | 1        | Parrott-Habbersett | 6-25       | €cr          | --         | --            | --   | 2416        | FWC    | RT    |           |
| 16                     | Claiborne  | VMSL 6293     | 4870 NL 474 EL        | Earl V. Shehorn         | 1        | L. S. Brown        | 7-8        | €cr          | --         | --            | --   | 2225        | FWC    | CT    |           |
| 17                     | Mill Creek | VMSL 5609     | 4230 SL 1920 WL       | Mt. Carmel Dlg. Co.     | 1        | Don Piersol        | 7-1        | €cr          | --         | --            | --   | 2355        | FWC    | RT    |           |
| 18                     | Liberty    | VMSL 5777     | 300 SL 4260 WL        | Barnwell Prod. Co.      | 1        | Blanche Hall       | 9-26       | €cr          | --         | --            | --   | 3153        | FWC    | RT    |           |
| 19                     | Dover      | VMSL 5135     | 2730 NL 2795 WL       | Rudy Herman             | 1        | D. A. Overly       | ?          | €cr          | --         | --            | --   | 2215        | FWC    | CT    |           |
| 20                     | York       | VMSL 3470     | 1225 NL 2150 EL       | Miller-Pieroni          | 1        | M. Kirby-B. Potts  | 7-30       | €cr          | --         | --            | --   | 2136        | FWC    | CT    |           |
| 21                     | Claiborne  | VMSL 13440    | 714 NL 2836 WL        | Ray Foreman             | 1        | R. Cheney          |            |              |            |               |      |             | FWC    | CT    | Abd. loc. |
| 22                     | Mill Creek | VMSL 3006     | 3450 NL 686 WL        | Donald J. Krist         | 1        | H. & F. Heidon     | 7-21       | €cr          | --         | --            | --   | 2600        | FWC    | RT    |           |
| 23                     | Mill Creek | VMSL 2998     | 1525 NL 4425 WL       | Texas Coastal Oil Corp. | 1        | I. C. Bouie        | 7-19       | €ms          | --         | --            | --   | 2375        | FWC    | RT    |           |
| 24                     | Mill Creek | VMSL 2998     | 2374 SL 1236 EL       | Basin Oil Devel. Co.    | 1        | E. & C. Cole       | 8-5        | €cr          | --         | --            | --   | 2540        | FWC    | RT    |           |
| 25                     | Taylor     | VMSL 4264     | 1348 SL 5380 WL       | Branoco of Ohio, Inc.   | 1        | G. A. Beeson       | 8-16       | €ms          | --         | --            | --   | 3187        | FWC    | RT    |           |
| 26                     | Allen      | VMSL 2833     | 78 NL 2450 EL         | Merle B. Piper          | 1        | J. W. Caryl        |            |              |            |               |      |             | FWC    | CT    | Active    |
| 27                     | Taylor     | VMSL 3691     | 2125 SL 2234 WL       | Capitol City Pet. Corp. | 1        | R. C. Kirby        | 10-13      | €cr          | --         | --            | --   | 2130        | FWC    | CT    |           |
| 28                     | Claiborne  | VMSL 7869     | 7000 NL 1000 WL       | Hadson Ohio Oil Co.     | 1        | I. & J. Lewis      | 8-24       | €cr          | --         | --            | --   | 2152        | FWC    | RT    |           |
| 29                     | Mill Creek | VMSL 1573     | 330 NL 2582 EL        | Louis C. Ramp           | 1        | N. R. Foor         | 9-30       | €cr          | --         | --            | --   | 2394        | FWC    | CT    |           |
| 30                     | Claiborne  | VMSL 7008     | 3955 SL 1127 EL       | Hadson Ohio Oil Co.     | 1        | Z. B. Randall      | 9-1        | €cr          | --         | --            | --   | 2212        | FWC    | RT    |           |
| 31                     | Paris      | VMSL 3353     | 2020 NL 650 EL        | R. S. Thompson          | 1        | Albert Kleiber     | 9-11       | €cr          | --         | --            | --   | 2335        | FWC    | RT    |           |
| 32                     | Leesburg   | VMSL 5506     | 4750 SL 2900 WL Twp.  | Holt Enterprises        | 1        | M. & G. Hunter     |            |              |            |               |      |             | FWC    | CT    | Abd. loc. |
| 33                     | Jerome     | VMSL 5234     | 910 NL 4650 WL Twp.   | Holt Enterprises        | 1        | Walter Fry         |            |              |            |               |      |             | FWC    | CT    | Abd. loc. |
| 34                     | Mill Creek | VMSL 1394     | 971 SL 1210 EL        | Hampton, Ltd.           | 1        | W. & C. Putnam     | 11-19      | €cr          | --         | --            | --   | 2311        | FWC    | CT    |           |
| 35                     | York       | VMSL 11346    | 2320 SL 2210 WL       | Miller-Pieroni          | 1        | Hazel Hull         |            |              |            |               |      |             | FWC    | CT    | Active    |
| 36                     | Dover      | VMSL 3956     | 1510 NL 1750 WL       | Jud Noble               | 1        | E. & G. Frey       |            |              |            |               |      |             | FWC    | CT    | Active    |
|                        |            | SUMMARY       | GAS-0 OIL-0           | COMBINATION-0           |          | DRY-18 TOTAL-18    |            |              |            | 0             | 0    | 44,435      | FEET   |       |           |
| <b>VAN WERT COUNTY</b> |            |               |                       |                         |          |                    |            |              |            |               |      |             |        |       |           |
| 24                     | York       | S 25          | 230 NL 1363 EL NE     | Holt Enterprises        | 1        | O. O. Wyman        |            |              |            |               |      |             | Pool   | RT    | Active    |
| 25                     | York       | S 1           | 1075 NL 2470 EL SE    | Holt Enterprises        | 1        | L. & D. Morris     | 11-24      | Ot           | Shot       | --            | 50   | 1245        | Pool   | CT    |           |
| 26                     | Jennings   | S 31          | 230 NL 2460 WL NW     | Barnwell Prod. Co.      | 1        | H. & D. Bassett    | 10-26      | Ot           | --         | --            | --   | 1280        | Pool   | RT    |           |
| 27                     | York       | S 1           | 1075 NL 1550 EL SE    | Holt Enterprises        | 2        | L. & D. Morris     | 10-13      | €            | --         | --            | --   | 2130        | Pool   | CT    |           |
| 28                     | York       | S 1           | 1620 SL 1600 WL SW    | Holt Enterprises        | 1        | D. L. Reese        |            |              |            |               |      |             | Pool   | CT    | Active    |
| 29                     | York       | S 1           | 2280 SL 1600 WL SW    | Holt Enterprises        | 2        | D. L. Reese        |            |              |            |               |      |             | Pool   | CT    | Active    |
| 30                     | York       | S 1           | 3730 NL 990 EL        | Holt Enterprises        | 1        | Lehman Fisher      |            |              |            |               |      |             | Pool   | CT    | Active    |
|                        |            | SUMMARY       | GAS-0 OIL-1           | COMBINATION-0           |          | DRY-2 TOTAL-3      |            |              |            | 0             | 50   | 4,655       | FEET   |       |           |

## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township  | Land Division | Location        |       | Operator                 | Well No.       | Lease           | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks            |
|---------------------|-----------|---------------|-----------------|-------|--------------------------|----------------|-----------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------------|
|                     |           |               |                 |       |                          |                |                 |            |              |            | MCFGPD        | BOPD |             |        |       |                    |
| VINTON COUNTY       |           |               |                 |       |                          |                |                 |            |              |            |               |      |             |        |       |                    |
| 291                 | Swan      | S 36          | 360 NL 870 WL   | NW    | R. W. Matlock            | 1              | James Conley    | 4-?        | Mbe          | Frac       | --            | 2    | 840         | Pool   | CT    | Gas 5 MCF          |
| 295                 | Brown     | S 33          | 462 SL 396 EL   | NE    | Ross Milby               | 1              | George Loy      |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 301                 | Elk       | S 18          | 918 SL 206 EL   | SE    | G. & B. Dodrill          | 1              | G. & B. Dodrill | 1-22       | Dgd          | Shot       | --            | --   | 1141        | Pool   | CT    | Gas 8 MCF Domestic |
| 302                 | Harrison  | S 6           | 660 NL 850 WL   | NE    | Well Supervision, Inc.   | 1              | V. & F. Brown   | 8-6        | ECr          | --         | --            | --   | 4072        | FWC    | CT    |                    |
| 303                 | Swan      | S 33          | 310 SL 832 WL   | NE    | Harry Morehead           | 1              | D. F. Snedecor  | 6-12       | Mbe          | Shot       | --            | 7    | 800         | Pool   | CT    |                    |
| 304                 | Knox      | S 1           | 875 NL 323 EL   | NE    | George Kissling, Jr.     | 2              | Keith Staneart  | 6-19       | Mbe          | Shot       | --            | 8    | 1293        | Pool   | CT    |                    |
| 305                 | Jackson   | S 10          | 1600 NL 400 EL  | NW    | Ohio Fuel Gas Co.        | 1              | H. E. Forest    |            |              |            |               |      |             | Pool   | CT    | OW Abd.            |
| 306                 | Swan      | S 1           | 660 NL 647 WL   | NE    | E. J. Dunigan, Jr.       | 1              | Earl White      | 7-19       | Sal          | Frac       | 6730          | --   | 3078        | FWC    | CT    |                    |
| 307                 | Knox      | S 1           | 1620 NL 1020 EL | NE    | K Dlg. Co.               | 1              | M. & K. Woodrum | 7-22       | Mbe          | Shot       | --            | 12   | 1275        | Pool   | CT    | Gas 10 MCF         |
| 308                 | Knox      | S 1           | 1620 NL 450 EL  | NE    | K Dlg. Co.               | 2              | M. & K. Woodrum | 8-18       | Mbe          | Shot       | --            | 6    | 1330        | Pool   | CT    |                    |
| 309                 | Swan      | S 33          | 580 NL 715 WL   | NE    | Harry Morehead           | 1              | Malcolm Conley  | 8-10       | Mbe          | Frac       | --            | 6    | 850         | Pool   | CT    |                    |
| 310                 | Brown     | S 30          | 330 NL 1355 EL  | SW    | Lee Oil Co.              | 1              | Howard Earnhart | 8-2        | Mbe          | --         | --            | --   | 968         | Pool   | CT    |                    |
| 311                 | Swan      | S 33          | 310 SL 1470 EL  | NE    | Harry Morehead           | 2              | D. F. Snedecor  | 10-23      | Mbe          | Frac       | --            | 5    | 807         | Pool   | CT    |                    |
| 312                 | Knox      | S 2           | 300 SL 300 EL   | SE    | K Dlg. Co.               | 1              | Velma McCathren | 9-29       | Mbe          | Shot       | 500           | 24   | 1313        | Pool   | CT    |                    |
| 313                 | Eagle     | S 32          | 330 SL 330 WL   | SW    | Well Supervision, Inc.   | 1              | Ralph Ratcliff  |            |              |            |               |      |             | Pool   | CT    | Active             |
| 314                 | Knox      | S 2           | 950 SL 450 EL   | SE    | K Dlg. Co.               | 2              | Velma McCathren | 10-23      | Mbe          | Shot       | --            | 8    | 1298        | Pool   | CT    |                    |
| 315                 | Swan      | S 33          | 1175 NL 50 EL   | NW    | Harry Morehead           | 2              | Malcolm Conley  |            |              |            |               |      |             | Pool   | CT    | Active             |
| SUMMARY             |           |               | GAS-1           | OIL-8 | COMBINATION-1            | DRY-3 TOTAL-13 |                 |            |              |            | 7,230         | 78   | 19,065      | FEET   |       |                    |
| OLD WELLS ABANDONED |           |               |                 |       |                          |                |                 |            |              |            |               |      |             |        |       |                    |
| 138                 | Harrison  | S 13          | 0 NL 675 WL     | NW    | Ohio Fuel Gas Co.        | 2              | L. A. Bethel    | 1958       | Sal          | ?          | ?             | --   | 2262        | Pool   | CT    | Abd. 11-10         |
| 143-A               | Richland  | S 34          | 1270 NL 255 WL  | SW    | Ohio Fuel Gas Co.        | 9              | C. R. Poland    | 1918       | Sal          | ?          | ?             | --   | 2462        | Pool   | CT    | Abd. 6-17          |
| 144                 | Harrison  | S 13          | 600 NL 775 EL   | NW    | Ohio Fuel Gas Co.        | 2              | Gladys Bethel   | 1958       | Sal          | ?          | ?             | --   | 2180        | Pool   | CT    | Abd. 12-29         |
| 145                 | Harrison  | S 14          | 754 NL 471 EL   | NE    | Ohio Fuel Gas Co.        | 3              | H. B. Arnott    | 1958       | Sal          | ?          | ?             | --   | 2237        | Pool   | CT    | Abd. 11-20         |
| 182                 | Swan      | S 15          | 640 SL 890 EL   | SE    | Neal Dillon(D. Blanton)  | 2              | Roscoe Campbell | 1959       | Sal          | Frac       | 5500          | --   | 2947        | Pool   | CT    | Abd. 1-27          |
| 200                 | Swan      | S 10          | 660 NL 1200 EL  | SW    | Ohio Fuel Gas Co.        | 1              | J. H. Niple     | 1960       | Sal          | Frac       | 111           | --   | 2971        | Pool   | CT    | Abd. 6-5           |
| 219                 | Madison   | S 36          | 335 SL 1928 EL  | SE    | K Dlg. Co.               | 1              | Emily Good      | 1960       | Mbe          | Frac       | --            | 25   | 953         | Pool   | CT    | Abd. 7-22          |
| 236                 | Madison   | S 29          | 1184 NL 153 WL  | NW    | Central Oil Field Supply | 1              | William Cram    | 1960       | Mbe          | Frac       | 200           | 60   | 894         | Pool   | CT    | Abd. 7-15          |
| 283                 | Knox      | S 33          | 2040 SL 800 WL  | SW    | Ed Morris                | 2              | Clifford Acres  | 1961       | Mbe          | Frac       | 2             | 15   | 1214        | Pool   | CT    | Abd. 4-10          |
| 304-A               | Richland  | S 2           |                 |       | Ohio Fuel Gas Co.        | 1              | Sarah Cozad     | 1921       | Sal          | ?          | ?             | --   | 2538        | Pool   | CT    | Abd. 6-22          |
| 305                 | Jackson   | S 10          | 1600 NL 400 EL  | NW    | Ohio Fuel Gas Co.        | 1              | H. E. Forest    | 1919       | Sal          | ?          | 725           | --   | 2514        | Pool   | CT    | Abd. 6-26          |
| SUMMARY             |           |               | ABANDONED-11    |       |                          |                |                 |            |              |            |               |      |             |        |       |                    |
| WASHINGTON COUNTY   |           |               |                 |       |                          |                |                 |            |              |            |               |      |             |        |       |                    |
| 2691                | Grandview | S 22-N        | 1160 SL 225 EL  | SW    | George Kapnicky          | 1              | C. A. Cline     |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 2729                | Muskingum | L 3           | 2120 NL 353 WL  |       | Pyramid O. & G. Co.      | 2              | C. R. Diest     |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 2746                | Muskingum | L 27          | 1270 SL 865 WL  |       | C. E. Tessmer            | 1              | Milo Reynolds   |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 2749                | Muskingum | L 16          | 4740 NL 330 WL  |       | Pyramid O. & G. Co.      | 1              | C. & C. Rush    |            |              |            |               |      |             | Pool   | CT    | Canceled           |
| 2750                | Muskingum | L 17          | 540 NL 119 WL   |       | Allen Co.                | 1              | DeLong          | 3-27       | Mbe          | --         | --            | 2    | 1875        | Pool   | CT    |                    |

LIST OF OPERATIONS DURING 1964

| Permit Number            | Township     | Land Division            | Location        | Operator | Well No.               | Lease | Date Comp.               | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |                                  |
|--------------------------|--------------|--------------------------|-----------------|----------|------------------------|-------|--------------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|----------------------------------|
|                          |              |                          |                 |          |                        |       |                          |              |            | MCFGPD        | BOPD |             |        |       |         |                                  |
| WASHINGTON COUNTY (con.) |              |                          |                 |          |                        |       |                          |              |            |               |      |             |        |       |         |                                  |
| 2769                     | Newport      | S 24-W                   | 309 SL 503 EL   | SE       | C. R. Gerber           | 3     | A. H. Hines              | 1963         | Mbe        | Nat           | --   | 5           | 1900   | Pool  | CT      | Correction<br>Replaced by P-2907 |
| 2783                     | Independence | S 36                     | 1220 NL 400 WL  | NE       | Beaver & Beaver        | 2     | Helen Hamilton           |              |            |               |      |             |        | Pool  | CT      |                                  |
| 2803                     | Salem        | L 147                    | 1170 NL 1220 WL |          | Roger Eckelberry       | 1     | Clarence Antill          | 1963         | Pcr        | Nat           | --   | 1           | 360    | Pool  | CT      |                                  |
| 2805                     | Grandview    | S 28                     | 810 NL 2255 EL  | NE       | G. R. Dye              | 1     | G. R. Dye                | 6-4          | Pcr        | Nat           | --   | 2           | 849    | Pool  | CT      | Canceled                         |
| 2828                     | Lawrence     | S 7                      | 1162 SL 858 EL  | NW       | Lewis Baker            | 2     | W. H. Alexander          |              |            |               |      |             |        | Pool  | CT      |                                  |
| 2832                     | Newport      | S 5                      | 1308 SL 1870 EL | NW       | Keith Oil Co.          | 15    | G. F. Miller             |              |            |               |      |             |        | Pool  | CT      | Canceled                         |
| 2836                     | Lawrence     | S 2                      | 1515 SL 1165 WL | SW       | Lester Roach           | 1     | L. & R. Roach            | 10-3         | Pcr        | Shot          | 258  | 1           | 766    | Pool  | CT      |                                  |
| 2838                     | Marietta     | L 32                     | 50 SL 1960 EL   |          | J. H. Greathouse       | 1     | W. O. Casto              |              |            |               |      |             |        | Pool  | CT      | Canceled                         |
| 2842                     | Decatur      | S 3                      | 125 SL 3138 WL  |          | Harold Dunfee          | 1     | W. P. Weinrick           | 1-20         | Pcr        | --            | --   | --          | 783    | Pool  | CT      |                                  |
| 2845                     | Muskingum    | L 11                     | 740 SL 40 EL    |          | Hugh Stevens           | 2     | S. S. Chambers           |              |            |               |      |             |        | Pool  | CT      | Abd. loc.                        |
| 2847                     | Independence | S 28                     | 1520 SL 1285 EL | SE       | Rouse O. & G. Co.      | 1     | John Harris              | 1-9          | Min        | Shot          | --   | 4           | 1217   | Pool  | CT      | Gas 10 MCF                       |
| 2849                     | Salem        | L 53                     | 404 NL 1218 WL  |          | Barnet Oil Co.         | 1-A   | F. & E. Wepppler         | 1-19         | Mbe        | Frac          | 1000 | --          | 1685   | Pool  | CT      |                                  |
| 2850                     | Barlow       | L 785                    | 142 NL 3187 WL  |          | Dolpha Anderson        | 2     | J. McIntire              | 1963         | Mbe        | Frac          | 400  | --          | 1785   | Pool  | CT      |                                  |
| 2852                     | Salem        | L 59                     | 650 SL 500 EL   |          | Biehl Dlg. Co.         | 10    | H. & H. Knoch            | 1963         | Pmb        | ?             | --   | 3           | 736    | Pool  | CT      |                                  |
| 2853                     | Newport      | S 4                      | 2136 NL 40 WL   | NW       | Hartshorn Farm Oil     | 3     | R. O. Hartshorn          | 3-14         | Pcr        | --            | --   | --          | 390    | Pool  | CT      |                                  |
| 2854                     | Barlow       | S 6                      | 304 NL 1052 WL  | NE       | Teichman-Ferguson      | 1     | J. H. Kerby              | 2-23         | Mbe        | Frac          | 243  | 2           | 1967   | Pool  | CT      |                                  |
| 2855                     | Barlow       | S 22                     | 384 SL 362 WL   | SW       | Teichman-Ferguson      | 1     | Gerald Lynch             | 2-18         | Mbe        | Frac          | 778  | --          | 1838   | Pool  | CT      |                                  |
| 2856                     | Ludlow       | S 10                     | 1383 SL 797 EL  | SE       | Myers O. & G. Co.      | 1     | William Rnard            | 3-30         | Mbe        | Frac?         | 360  | 1           | 1589   | Pool  | CT      |                                  |
| 2857                     | Fearing      | L 112                    | 557 SL 270 EL   |          | Biehl Dlg. Co.         | 1     | Dean Becker              | 2-12         | Pmb        | Shot          | --   | 3           | 809    | Pool  | CT      |                                  |
| 2858                     | Watertown    | L 825                    | 145 SL 860 WL   |          | Raymond Anderson       | 16    | C. & E. Gearhart         | 3-20         | Ppk        | ?             | --   | 18          | 618    | Pool  | CT      |                                  |
| 2859                     | Salem        | L 53                     | 330 SL 330 EL   |          | Barnet Oil Co.         | 2-A   | F. & E. Wepppler         |              |            |               |      |             |        | Pool  | CT      | Abd. loc.                        |
| 2860                     | Newport      | S 24                     |                 |          | A. H. Hearn            | 4     | A. Rosenbusch            |              |            |               |      |             |        | Pool  | CT      | OW Abd.                          |
| 2861                     |              | No information available |                 |          |                        |       |                          |              |            |               |      |             |        | Pool  | CT      | OW Abd.                          |
| 2862                     | Salem        | L 54                     | 382 SL 228 EL   |          | Earl Clymer            | 1     | George Schmidt           | 5-6          | Mbe        | Frac          | 2000 | --          | 1685   | Pool  | CT      | Core test 430 ft.                |
| 2863                     | Newport      | S 31                     | 3800 NL 2210 WL |          | Kentucky Dlg. & Oper.  | CW-1  | Fred Link                | 4-13         | Pmt        | --            | --   | --          | --     | Pool  |         |                                  |
| 2864                     | Newport      | S 31                     | 1440 NL 625 WL  | NW       | Illinois Mid Cont. Oil | CW-1  | G. E. Thornlly           | ?            | ?          | --            | --   | --          | --     | Pool  |         | Core test                        |
| 2865-1                   | Newport      | S 32                     | 267 SL 2058 EL  | SE       | Illinois Mid Cont. Oil | CW-1  | W. L. Schnaufer          | ?            | ?          | --            | --   | --          | --     | Pool  |         | Core test                        |
| 2865-2                   | Newport      | S 32                     | 1100 SL 2518 EL | SE       | Illinois Mid Cont. Oil | CW-2  | W. L. Schnaufer          | 5-4          | Mbe        | --            | --   | --          | --     | Pool  |         | Core test 790 ft.                |
| 2866                     | Salem        | L 47                     | 246 NL 335 WL   |          | Sabo & Longfellow      | 1     | Richard Warner           | 5-25         | Pmb        | ?             | 789  | --          | 762    | Pool  | CT      | OW Abd. 2 wells                  |
| 2867                     | Warren       |                          |                 |          | W. Patterson           | --    | Dye Heirs                |              |            |               |      |             |        | Pool  | CT      |                                  |
| 2868-13                  | Fearing      | L 112                    | 630 NL 1030 EL  |          | Biehl Dlg. Co.         | 13    | C. & H. Long             | 3-9          | Pmb        | ?             | --   | 10          | 775    | Pool  | CT      | Replaced by P-2920               |
| 2868-14                  | Fearing      | L 112                    | 251 SL 1330 WL  |          | Biehl Dlg. Co.         | 14    | C. & H. Long             |              |            |               |      |             |        | Pool  | CT      |                                  |
| 2869                     | Warren       | S 16                     | 1620 SL 428 EL  | SW       | Union Carbide Corp.    | 1     | G. W. Lee                | 6-3          | Mbe        | Frac          | 1245 | --          | 1261   | Pool  | CT      | Abd. loc.<br>OW Abd.             |
| 2870                     | Warren       | S 16                     | 462 SL 858 WL   | SE       | Union Carbide Corp.    | 1     | M. E. Wynn               | 7-31         | Mbe        | Frac          | 1555 | 2           | 2136   | Pool  | CT      |                                  |
| 2871                     | Ludlow       | S 3                      | 1013 SL 157 WL  | SW       | Beaver & Beaver        | 1     | J. S. Gill               | 6-5          | Pcr        | --            | --   | --          | 340    | Pool  | CT      |                                  |
| 2872                     | Barlow       | S 22                     | 307 SL 1735 WL  | SW       | Dolpha Anderson        | 1     | Barlow Agr. & Mech. Soc. | 8-4          | Mbe        | --            | --   | --          | 1360   | Pool  | CT      | Abd. loc.<br>OW Abd.             |
| 2873                     | Salem        | L 57                     | 275 SL 1045 WL  |          | Gerald E. Smith        | 1     | B. & C. Goodwill         |              |            |               |      |             |        | Pool  | CT      |                                  |
| 2874                     | Grandview    | S 27                     |                 |          | R. O. Hearn            | 1     | D. Furshey               |              |            |               |      |             |        | Pool  | CT      |                                  |
| 2875                     | Ludlow       | S 10                     | 498 SL 1054 EL  | SE       | Myers O. & G. Co.      | 2     | J. A. Ronshausen         | 7-2          | Mbe        | ?             | 95   | 15          | 2149   | Pool  | CT      |                                  |
| 2876                     |              | No information available |                 |          |                        |       |                          |              |            |               |      |             |        | Pool  | CT      | OW Abd.                          |
| 2877                     |              | No information available |                 |          |                        |       |                          |              |            |               |      |             |        | Pool  | CT      | OW Abd.                          |
| 2878                     | Salem        | L 57                     | 107 SL 660 EL   |          | Gerald E. Smith        | 2     | C. & B. Goodwill         | 6-20         | Pmb        | Shot          | --   | 3           | 798    | Pool  | CT      | OW Abd.                          |
| 2879                     | Salem        | L 43                     | 729 SL 897 EL   |          | Quaker State O. & R.   | 1-A   | J. A. Hall               | 7-14         | Mbe        | --            | --   | 5           | 1891   | Pool  | CT      |                                  |
| 2880                     | Warren       | S 16                     | 830 SL 891 WL   | SW       | Union Carbide Corp.    | 2     | G. W. Lee                | 7-28         | Mbe        | Nat?          | 995  | --          | 1545   | Pool  | CT      |                                  |
| 2881                     | Salem        | L 54                     | 678 NL 801 EL   |          | Barnet Oil Co.         | 1     | Schmidt                  | 7-30         | Mbe        | Frac          | 2000 | --          | 1690   | Pool  | CT      |                                  |

## LIST OF OPERATIONS DURING 1964

| Permit Number            | Township     | Land Division            | Location        | Operator | Well No.              | Lease | Date Comp.               | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |                                    |
|--------------------------|--------------|--------------------------|-----------------|----------|-----------------------|-------|--------------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|------------------------------------|
|                          |              |                          |                 |          |                       |       |                          |              |            | MCFGPD        | BOPD |             |        |       |         |                                    |
| WASHINGTON COUNTY (con.) |              |                          |                 |          |                       |       |                          |              |            |               |      |             |        |       |         |                                    |
| 2882                     | Independence | S 13                     | 1457 NL 604 EL  | SE       | Eta Oil Co.           | 1     | E. T. Abricht            | 10-24        | Msq        | Frac          | 279  | --          | 1525   | Pool  | CT      | OW Abd. 2 wells                    |
| 2883                     | Watertown    | L 26                     | 273 SL 1034 WL  |          | Merchants Pet. Co.    | 2     | Schilling                | 7-20         | Pmx        | ?             | 300  | --          | 931    | Pool  | CT      |                                    |
| 2884                     | Watertown    | L 21                     | 475 SL 434 WL   |          | Merchants Pet. Co.    | 2     | Charles Lang             | 8-4          | Pmx        | Nat?          | 500  | --          | 925    | Pool  | CT      |                                    |
| 2885                     | Watertown    | L 21                     | 809 SL 1057 WL  |          | Merchants Pet. Co.    | 3     | Charles Lang             | 9-24         | Pmx        | --            | --   | --          | 1200   | Pool  | CT      |                                    |
| 2886                     | Warren       | S 8                      |                 |          | W. Patterson          | --    | Reppert                  |              |            |               |      |             |        | Pool  | CT      |                                    |
| 2887                     | Newport      | S 31                     | 600 SL 2400 WL  | SW       | Kentucky Dlg. & Oper. | K-1   | Fred Link                | 9-24         | Mbe        | Frac          | 300  | 1           | 1946   | Pool  | CT      | Active                             |
| 2888                     | Salem        | L 57                     | 457 SL 610 EL   |          | Gerald E. Smith       | 3     | C. & B. Goodwill         |              |            |               | --   | --          |        | Pool  | CT      |                                    |
| 2889                     | Ludlow       | S 2                      | 504 NL 1040 EL  | SW       | Big Five Oil Co.      | 1     | Clarence Pugh            | 8-26         | Mbe        | --            | --   | --          | 1818   | Pool  | CT      |                                    |
| 2890                     | Warren       | S 6                      | 1956 NL 1640 EL | NE       | Braden Prod. Co.      | 2     | Van Zile Corp.           | 7-29         | Mbe        | Frac          | 200  | --          | 1867   | Pool  | CT      |                                    |
| 2891                     | Fearing      | L 103                    | 25 NL 1110 EL   |          | Big Six Oil Co.       | 18    | A. & A. Nichols          | 8-26         | P          | Shot          | --   | 2           | 805    | Pool  | CT      |                                    |
| 2892                     | Warren       | S 16                     | 470 NL 484 WL   | NE       | Union Carbide Corp.   | 1     | Eugene Eddy              | 10-14        | Mbe        | Frac          | 800  | --          | 2143   | Pool  | CT      | OW Abd. Active Gas 35 MCF Domestic |
| 2893                     | Marietta     | L 18                     |                 |          | H. B. Zinn            | 1     | H. B. Zinn               |              |            |               | --   | --          |        | Pool  | CT      |                                    |
| 2894                     | Dunham       | S 16                     | 566 NL 1720 EL  | SE       | Emerson D. Gates      | 1     | R. & H. Brooks           |              |            |               | --   | --          |        | Pool  | CT      |                                    |
| 2895                     | Barlow       | S 9                      | 1780 SL 95 WL   | SW       | Dolpha Anderson       | 2     | Paul Allen               | 8-27         | P          | --            | --   | --          | 1860   | Pool  | CT      |                                    |
| 2896                     | Salem        | L 58                     | 513 SL 468 EL   |          | Howard Dyer           | 1     | P. Polmer                | 9-18         | P          | --            | --   | --          | 732    | Pool  | CT      |                                    |
| 2897                     | Independence | S 22                     | 1924 SL 450 WL  | SW       | Kalem G. & O. Co.     | 1     | E. & K. West             | 9-18         | Mbe        | --            | --   | --          | 1500   | Pool  | CT      | Active                             |
| 2898                     | Watertown    | L 32                     | 335 SL 246 EL   |          | Merchants Pet. Co.    | 1     | George Lang              | 9-19         | Pmb        | --            | --   | --          | 1181   | Pool  | CT      |                                    |
| 2899                     | Warren       | S 17                     | 735 SL 1532 WL  | SW       | Union Carbide Corp.   | 1     | Henry Pottmeyer          |              |            |               | --   | --          |        | Pool  | CT      |                                    |
| 2900                     | Salem        | L 48                     | 427 NL 235 WL   |          | Hullhorst Oil Co.     | 1     | R. & C. Schmidt          | 9-?          | Mbe        | Frac          | 513  | --          | 1642   | Pool  | CT      |                                    |
| 2901                     | Muskingum    | L 379                    | 330 SL 1518 EL  |          | C. E. Beardman        | 1     | E. W. Stage              | 9-11         | Mbe        | Frac          | 420  | --          | 1833   | Pool  | CT      |                                    |
| 2902                     | Warren       | S 16                     | 2360 SL 1050 WL | SW       | Union Carbide Corp.   | 3     | G. W. Lee                | 9-23         | Mbe        | Frac          | 980  | --          | 2140   | Pool  | CT      | Active                             |
| 2903                     | Newport      | S 28-W                   | 730 SL 450 EL   | NW       | Tadpole Oil Co.       | 8     | P. & G. Gibson           |              |            |               | --   | --          |        | Pool  | CT      |                                    |
| 2904                     | Barlow       | S 22                     | 405 SL 1560 WL  | SW       | Dolpha Anderson       | 2     | Barlow Agr. & Mech. Soc. |              |            |               | --   | --          |        | Pool  | CT      |                                    |
| 2905                     | Fearing      | L 133                    | 500 NL 1900 EL  |          | Howard Gerken         | 1     | L. Offenberger           | 9-26         | Pcr        | --            | --   | --          | 910    | Pool  | CT      |                                    |
| 2906                     | Ludlow       | S 3                      | 899 NL 1745 WL  | NW       | R. O. Hearn           | 1     | C. L. Edwards            | 9-20         | Min        | --            | --   | --          | 1600   | Pool  | CT      |                                    |
| 2907                     | Independence | S 36                     | 1220 NL 400 WL  | NE       | Beaver & Beaver       | 2     | H. Hamilton(L. Hune)     | 10-15        | Pcr        | --            | --   | --          | 1072   | Pool  | CT      | Replaces P-2783 Gas 10 MCF         |
| 2908                     | Ludlow       | S 16                     | 257 SL 197 WL   | SW       | Payne O. & G. Co.     | 9     | Graham-Cline             | 10-6         | Pmb        | Shot          | --   | 1           | 1442   | Pool  | CT      |                                    |
| 2909                     | Watertown    | L 20                     | 525 NL 356 WL   |          | Merchants Pet. Co.    | 1     | Andrew Schaad            | 10-15        | Pmb        | --            | --   | --          | 989    | Pool  | CT      | Core test                          |
| 2910                     | Fearing      | L 113                    | 220 SL 930 EL   |          | Gerald E. Smith       | 1     | R. L. Foreman            | 10-20        | Pmb        | Nat           | --   | 4           | 610    | Pool  | CT      |                                    |
| 2911                     | Aurelius     | S 29                     | 933 SL 608 WL   | SE       | Juniper O. & G. Co.   | 2     | F. & O. Waller           | 11-17        | P          | --            | --   | --          | 986    | Pool  | RT      |                                    |
| 2912                     | Aurelius     | S 29                     | 660 SL 760 WL   | SE       | Juniper O. & G. Co.   | 1     | J. R. Hall               | 10-24        | P          | --            | --   | --          | 1155   | Pool  | RT      | Core test                          |
| 2913                     | Independence | S 30                     | 317 NL 1456 EL  | SW       | Lindy O. & G. Co.     | 1     | Anna West                |              |            |               | --   | --          |        | Pool  | CT      | Active                             |
| 2914                     | Ludlow       | S 2                      | 400 NL 1230 WL  | SW       | Big Five Oil Co.      | 1     | Geneva Hanlon            | 11-13        | Mbe        | Shot          | --   | 5           | 1676   | Pool  | CT      |                                    |
| 2915                     | Independence | S 28                     | 1820 SL 1321 EL | SE       | Rouse O. & G. Co.     | 2     | John Harris              |              |            |               | --   | --          |        | Pool  | CT      | Active                             |
| 2916                     | Marietta     | S 36                     | 846 NL 460 WL   | NW       | Braden Devel. Co.     | 1     | P. W. Ulmer              | 12-?         | Mbe        | Frac          | 500  | --          | 1972   | Pool  | CT      |                                    |
| 2917                     |              | No information available |                 |          |                       |       |                          |              |            |               |      |             |        |       |         |                                    |
| 2918                     | Newport      | S 21                     | 2114 NL 400 EL  | NE       | James Cameron         | 10    | D. E. Abricht            | 11-20        | Pcr        | Nat           | --   | 1           | 585    | Pool  | CT      | Gas 35 MCF                         |
| 2919                     | Newport      | S 11                     | 645 SL 1220 EL  | SE       | S. O. Dennis          | 3     | H. E. Lauer              | 11-5         | Pmb        | --            | --   | --          | 550    | Pool  | CT      |                                    |
| 2920                     | Fearing      | L 113                    | 251 SL 1330 WL  |          | Biehl Dlg. Co.        | 14    | C. & H. Young            | 11-7         | Pmb        | ?             | --   | 16          | 625    | Pool  | CT      |                                    |
| 2921                     | Warren       | S 24                     | 390 SL 4300 WL  |          | Harry L. Starr        | 1     | Construction Stone Co.   | 12-2         | Mbe        | Frac          | --   | 75          | 1900   | Pool  | CT      |                                    |
| 2922                     | Barlow       | S 9                      | 820 SL 255 WL   | SW       | Dolpha Anderson       | 3     | Paul Allen               | 12-3         | Pmb        | Nat           | 50   | --          | 1217   | Pool  | CT      |                                    |
| 2923                     | Watertown    | L 825                    | 107 SL 1103 WL  |          | Raymond Anderson      | 17    | C. & E. Gearhart         | 12-10        | Ppk        | --            | --   | 2           | 593    | Pool  | CT      | Active                             |
| 2924                     | Salem        | L 58                     | 102 NL 766 EL   |          | Dyer & Davis          | 2     | Pemberton Palmer         |              |            |               | --   | --          |        | Pool  | CT      |                                    |
| 2925                     | Adams        | L 64                     | 1150 NL 690 WL  |          | Lynch & Pugh          | 3     | O. W. Wagner             |              |            |               | --   | --          |        | Pool  | CT      |                                    |
| 2926                     | Ludlow       | S 9                      | 90 SL 245 EL    | SW       | L. S. Gill            | 1     | U. S. Forest Reserve     |              |            |               | --   | --          |        | Pool  | CT      |                                    |

## LIST OF OPERATIONS DURING 1964

| Permit Number            | Township     | Land Division            | Location       | Operator      | Well No.                   | Lease           | Date Comp.        | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks |            |
|--------------------------|--------------|--------------------------|----------------|---------------|----------------------------|-----------------|-------------------|--------------|------------|---------------|------|-------------|--------|-------|---------|------------|
| WASHINGTON COUNTY (con.) |              |                          |                |               |                            |                 |                   |              |            |               |      |             |        |       |         |            |
| 2927                     | Muskingum    | L 5                      | 827 NL 367 EL  | NE            | R. L. Smithberger          | 1-A             | E. A. Smith       | 12-31        | Min        | Shot          | --   | 3           | 1720   | Pool  | CT      | Active     |
| 2928                     | Independence | S 18                     | 1665 NL 820 WL |               | Natural Bridge O. & G.     | 1               | E. & E. Miller    |              |            |               |      |             |        |       |         |            |
| 2929                     | Grandview    | S 13                     | 638 NL 2738 EL |               | R. O. Hearn                | 1               | T. Bryan-S. McVay |              |            |               |      |             |        |       |         |            |
| 2930                     | Fearing      | L 113                    | 540 SL 960 EL  |               | Biehl Dlg. Co.             | 15              | C. & H. Young     |              |            |               |      |             |        |       |         |            |
| 2931                     | Fearing      | L 113                    | 150 SL 1100 WL |               | Biehl Dlg. Co.             | 16              | C. & H. Young     |              |            |               |      |             |        |       |         |            |
| 2932                     | Fearing      | L 124                    | 20 NL 1280 WL  |               | Biehl Dlg. Co.             | 17              | C. & H. Young     |              |            |               |      |             | Pool   | CT    | Active  |            |
|                          |              | SUMMARY                  | GAS-18 OIL-20  | COMBINATION-6 |                            | DRY-17 TOTAL-61 |                   |              |            | 16,560        | 187  | 79,209      | FEET   |       |         |            |
| OLD WELLS ABANDONED      |              |                          |                |               |                            |                 |                   |              |            |               |      |             |        |       |         |            |
| 3-A-3                    | Warren       | L 293                    | 900 SL 250 EL  |               | W. Patterson(Northern Oil) | 3               | John Cook         | 1911         | P          | ?             | --   | ?           | 660    | Pool  | CT      | Abd. 5-7   |
| 3-A-16                   | Warren       | L 293                    | 50 SL 1130 EL  |               | W. Patterson(Northern Oil) | 16              | John Cook         | 1911         | P          | Nat           | --   | ?           | 1135   | Pool  | CT      | Abd. 5-7   |
| 3-A-22                   | Warren       | L 294                    | 823 SL 320 EL  | SE            | W. Patterson(Northern Oil) | 22              | John Cook         | 1911         | P          | ?             | --   | ?           | 1100   | Pool  | CT      | Abd. 5-18  |
| 3-A-24                   | Warren       | L 294                    | 600 SL 500 EL  | SE            | W. Patterson(Northern Oil) | 24              | John Cook         | 1911         | P          | ?             | --   | ?           | 1100   | Pool  | CT      | Abd. 5-22  |
| 3-A-26                   | Warren       | L 294                    | 75 SL 580 EL   | SE            | W. Patterson(Northern Oil) | 26              | John Cook         | 1911         | P          | ?             | --   | ?           | 1170   | Pool  | CT      | Abd. 5-18  |
| 3-A-28                   | Warren       | L 294                    | 295 SL 990 EL  | SE            | W. Patterson(Northern Oil) | 28              | John Cook         | 1911         | P          | ?             | --   | ?           | 1050   | Pool  | CT      | Abd. 5-29  |
| 3-A-35                   | Warren       | S 15                     |                |               | W. Patterson(Northern Oil) | 35              | John Cook         | ?            | Pmb        | ?             | --   | ?           | 1212   | Pool  | CT      | Abd. 6-4   |
| 3-A-36                   | Warren       | S 15                     |                |               | W. Patterson(Northern Oil) | 36              | John Cook         | ?            | Pmb        | ?             | --   | ?           | 1241   | Pool  | CT      | Abd. 6-4   |
| 3-A-37                   | Warren       | S 15                     |                |               | W. Patterson(Northern Oil) | 37              | John Cook         | ?            | Pmb        | ?             | --   | ?           | 1191   | Pool  | CT      | Abd. 6-30  |
| 3-A-38                   | Warren       | S 15                     |                |               | W. Patterson(Northern Oil) | 38              | John Cook         | ?            | Pmb        | ?             | --   | ?           | 1245   | Pool  | CT      | Abd. 6-4   |
| 3-A-39                   | Warren       | S 15                     |                |               | W. Patterson(Northern Oil) | 39              | John Cook         | ?            | P          | ?             | --   | ?           | 1275   | Pool  | CT      | Abd. 6-4   |
| 395-A                    | Lawrence     | S 6                      | 1200 SL 250 WL | SW            | W. B. Depuy                | 2               | W. & L. Cooper    | ?            | Mbe        | ?             | ?    | --          | 1879   | Pool  | CT      | Abd. 3-9   |
| 1687-6                   | Palmer       | L 1081                   | 160 SL 2704 WL |               | E. M. Burt                 | 6               | E. M. Burt        | 1902         | Pcr        | ?             | --   | ?           | 460    | Pool  | CT      | Abd. 11-20 |
| 1687-7                   | Palmer       | L 1081                   | 20 SL 2680 WL  |               | E. M. Burt                 | 7               | E. M. Burt        | ?            | P          | ?             | --   | ?           | 330    | Pool  | CT      | Abd. 12-10 |
| 1913                     | Watertown    | L 813                    | 969 SL 2990 WL |               | B. H. Putnam               | 1               | Karl Wagner       | 1954         | Mbe        | Frac          | 220  | --          | 1768   | Pool  | CT      | Abd. 5-5   |
| 1947                     | Watertown    | L 795                    | 328 NL 1524 WL |               | B. H. Putnam               | 1               | Stollar-Rexroad   | 1954         | Mbe        | ?             | ?    | ?           | 1893   | Pool  | CT      | Abd. 5-13  |
| 2450                     | Adams        | L 15                     | 91 SL 26 EL    |               | Earl Clymer                | 1               | C. R. Dunn        | 1960         | Mbe        | Frac          | --   | 3           | 1640   | Pool  | CT      | Abd. 7-21  |
| 2479                     | Muskingum    | L 8                      | 3180 SL 100 WL |               | Pearl Dailey               | 17              | N. R. Young       | 1961         | Pmb        | Shot          | --   | 7           | 1070   | Pool  | CT      | Abd. 10-19 |
| 2582                     | Warren       | S 14                     | 2140 NL 559 WL | NW            | Columbia Carbon Co.        | 523             | V. T. Gustke      | 1962         | Dor        | Frac          | 2921 | --          | 4489   | Pool  | CT      | Abd. 8-5   |
| 2602                     | Adams        | L 37                     | 2461 NL 524 WL |               | Merchants Pet. Co.         | 1               | W. H. Bosner      | 1962         | Mbe        | Frac          | 200  | 10          | 2037   | Pool  | CT      | Abd. 10-19 |
| 2664                     | Warren       | S 19                     | 600 NL 1215 WL | NW            | Columbia Carbon Co.        | 1               | James Haythorne   | 1962         | Dor        | Frac          | 206  | --          | 4510   | Pool  | CT      | Abd. 7-7   |
| 2818                     | Salem        | L 71                     | 200 SL 310 EL  |               | H. F. Dyar                 | 5               | R. & L. Fagg      | 1963         | Pmt        | ?             | ?    | ?           | 160    | Pool  | CT      | Abd. 8-5   |
| 2820                     | Muskingum    | L 8                      |                |               | Pearl Dailey               | 3               | Nora Young        | 1910         | Pmb        | ?             | ?    | ?           | 780    | Pool  | CT      | Abd. 2-28  |
| 2827                     | Muskingum    |                          |                |               | J. T. Hall                 | 1               | J. P. Schilling   | ?            | ?          | ?             | ?    | ?           | 1050   | Pool  | CT      | Abd. 3-9   |
| 2860                     | Newport      | S 24                     |                |               | A. W. Hearn                | 4               | A. Rosenbusch     | 1922         | ?          | ?             | ?    | ?           | 1106   | Pool  | CT      | Abd. 3-5   |
| 2861                     |              | No information available |                |               |                            |                 |                   |              |            |               |      |             |        |       |         |            |
| 2867-25                  | Warren       |                          |                |               | W. Patterson               | 25              | Dye Heirs         | ?            | ?          | ?             | ?    | ?           | 1077   | Pool  | CT      | Abd. 5-14  |
| 2867-32                  | Warren       |                          |                |               | W. Patterson               | 32              | Dye Heirs         | ?            | ?          | ?             | ?    | ?           | 1075   | Pool  | CT      | Abd. 6-1   |
| 2874                     | Grandview    | S 27                     |                |               | R. O. Hearn                | 1               | David Forshey     | ?            | ?          | ?             | ?    | ?           | 1465   | Pool  | CT      | Abd. 6-17  |
| 2876                     |              | No information available |                |               |                            |                 |                   |              |            |               |      |             |        |       |         |            |

## LIST OF OPERATIONS DURING 1964

| Permit Number            | Township | Land Division            | Location        | Operator     | Well No.                  | Lease          | Date Comp.               | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools         | Remarks    |                     |
|--------------------------|----------|--------------------------|-----------------|--------------|---------------------------|----------------|--------------------------|--------------|------------|---------------|------|-------------|--------|---------------|------------|---------------------|
|                          |          |                          |                 |              |                           |                |                          |              |            | MCFGPD        | BOPD |             |        |               |            |                     |
| WASHINGTON COUNTY (con.) |          |                          |                 |              |                           |                |                          |              |            |               |      |             |        |               |            |                     |
| 2877                     | Warren   | No information available |                 | W. Patterson | 35                        | Reppert        | ?                        | ?            | ?          | ?             | ?    | 1100        | Pool   | CT            | Abd.       |                     |
| 2886-35                  |          | S 8                      |                 |              | 41                        | Reppert        | ?                        | ?            | ?          | ?             | ?    | ?           | Pool   | CT            | Abd. 7-20  |                     |
| 2886-41                  |          | S 8                      |                 |              | 1                         | H. B. Zinn     | 1932                     | P            | ?          | ?             | ?    | 495         | Pool   | CT            | Abd. 7-20  |                     |
| 2893                     |          | L 18                     |                 |              |                           |                |                          |              |            |               |      |             | Pool   | CT            | Abd. 11-12 |                     |
| 2917                     | Marietta | No information available |                 |              |                           |                |                          |              |            |               |      |             |        |               | Abd.       |                     |
|                          |          | SUMMARY                  | ABANDONED-35    |              |                           |                |                          |              |            |               |      |             |        |               |            |                     |
| WAYNE COUNTY             |          |                          |                 |              |                           |                |                          |              |            |               |      |             |        |               |            |                     |
| 1371                     | Green    | S 8                      | 340 NL 1700 EL  | SE           | D. W. Enders              | 1              | J. Anderson              | 1963         | Cr         | Frac          | 200  | 10          | 5820   | Pool          | RT         | logging instruments |
| 1374                     | Wooster  | S 11                     | 220 NL 50 EL    | NW           | Birdwell Div. of S. S. C. | 1              | Gallagher                | ?            | ?          | --            | --   | --          | --     | Test well for |            |                     |
| 1381                     | Milton   | S 15                     | 666 SL 360 WL   | SE           | E. J. Muth                | 1              | E. Hess-F. Homan         | 1-21         | Sal        | Frac          | 398  | 18          | 3484   | Pool          | CT         |                     |
| 1382                     | Milton   | S 30                     | 660 SL 660 EL   | NW           | Kin-Ark Oil Co.           | 3-A            | P. & L. Zook             | 1963         | Sal        | Frac          | 1600 | --          | 3411   | Pool          | RT         |                     |
| 1383                     | Milton   | S 30                     | 660 SL 660 EL   | NE           | Kin-Ark Oil Co.           | 4-B            | P. & L. Zook             | 1-3          | Sal        | Frac          | 1600 | --          | 3497   | Pool          | RT         |                     |
| 1384                     | Canaan   | S 19                     | 500 SL 100 EL   | SW           | Ohio Fuel Gas Co.         | 1              | L. Kollert(J. Irwin)     |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1385                     | Canaan   | S 11                     | 1000 NL 1040 EL | NE           | C. R. Obermiller          | 3              | Harry Hawk               |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1386                     | Chester  | S 17                     | 300 SL 375 EL   | NE           | Ohio Fuel(Medina Gas)     | 1              | B. Heckman(Imhoff)       |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1387                     | Canaan   | S 33                     | 300 SL 1050 EL  | SE           | Ohio Fuel Gas Co.         | 2              | F. J. Lehman             |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1388                     | Congress | S 6                      | 660 SL 660 EL   | SE           | Ohio Fuel Gas Co.         | 1              | M. Swack(Somerside)      |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1389                     | Wayne    | S 18                     | 300 SL 1940 EL  | NW           | Ohio Fuel Gas Co.         | 1              | C. C. Jones(Mowery)      |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1390                     | Plain    | S 1                      | 660 NL 2600 EL  | NE           | Ohio Fuel(Logan Gas)      | 1              | T. E. Silver(McMaster)   |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1391                     | Milton   | S 31                     | 330 NL 1850 WL  | SW           | Major O. & G. Co.         | 1              | E. M. Yoder              |              |            |               |      |             |        | Pool          | CT         | Replaced by P-1395  |
| 1392                     | Milton   | S 31                     | 660 SL 800 WL   | SW           | Major O. & G. Co.         | 1              | Andrew Yoder             | 4-4          | Sal        | --            | --   | --          | 3451   | Pool          | CT         | OW Abd.             |
| 1393                     | Plain    | S 1                      | 1660 NL 950 EL  | NW           | Ohio Fuel(Logan Gas)      | 1              | J. & R. Karcher          |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1394                     | Plain    | S 7                      | 170 SL 638 EL   | NW           | Ohio Fuel Gas Co.         | 1              | T. D. Grandstaff(Bowers) |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1395                     | Milton   | S 31                     | 400 NL 1650 WL  | SW           | Major O. & G. Co.         | 1              | E. M. Yoder              | 5-30         | Sal        | --            | --   | --          | 3442   | Pool          | CT         | Replaces P-1391     |
| 1396                     | Congress | S 18                     | 2350 NL 2480 EL | NE           | Ohio Fuel(Medina Gas)     | 1              | G. I. Henning(Taylor)    |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1397                     | Plain    | S 25-W                   | 389 SL 1530 WL  | SW           | Ohio Fuel(Logan Gas)      | 2              | A. W. Tyler              |              |            |               |      |             |        | Pool          | CT         | OW Abd.             |
| 1398                     | Green    | S 8                      | 1200 NL 1200 EL | SE           | F. H. Gower               | 1'             | Dwight Schrock           | 8-17         | Cr         | --            | --   | --          | 5769   | Pool          | RT         |                     |
| 1399                     | Congress | S 36-E                   | 410 NL 1100 EL  | SE           | John C. Mason             | 1              | J. O. Weiser             | 8-7          | Sal        | Frac          | --   | 30          | 3243   | Pool          | CT         | Gas 94 MCF          |
| 1400                     | Plain    | S 13-W                   | 800 NL 115 WL   | SW           | Waltz Bros.               | 5              | R. & F. Bienz            | 8-21         | Mbe        | --            | --   | --          | 654    | Pool          | RT         |                     |
| 1401                     | Plain    | S 13-W                   | 1370 SL 617 WL  | SW           | Waltz Bros.               | 6              | R. & F. Bienz            | 8-28         | Mbe        | --            | --   | --          | 673    | Pool          | RT         |                     |
| 1402                     | Plain    | S 13-W                   | 1250 NL 363 EL  | SW           | Waltz Bros.               | 7              | R. & F. Bienz            | 9-2          | Mbe        | --            | --   | --          | 676    | Pool          | RT         |                     |
| 1403                     | Plain    | S 25-E                   | 303 NL 425 WL   | SW           | Oxford Oil Co.            | 1              | Russell Stauffer         | 10-27        | Sal        | Frac          | 300  | 20          | 3249   | Pool          | CT         |                     |
| 1404                     | Plain    | S 25-E                   | 800 SL 425 WL   | NW           | Oxford Oil Co.            | 3              | Charles Canankamp        | 12-21        | Sal        | Frac          | 200  | 50          | 3239   | Pool          | CT         |                     |
| 1405                     | Congress | S 36                     | 430 NL 1310 EL  | SE           | John C. Mason             | 1              | E. J. Campbell           |              | Sal        | --            | --   | --          | 2998   | Pool          | CT         |                     |
| 1406                     | Congress | S 36                     | 400 NL 400 WL   | SE           | John C. Mason             | 2              | J. O. Weiser             |              |            |               |      |             |        | Pool          | CT         | Active              |
| 1407                     | Congress | S 14                     | 366 SL 972 EL   | SE           | Dalton & Hanna            | 1              | Howard Good              |              |            |               |      |             |        | Pool          | CT         | Abd. loc.           |
|                          |          | SUMMARY                  | GAS-2           | OIL-1        | COMBINATION-4             | DRY-7 TOTAL-14 |                          |              |            | 4,298         | 128  | 43,806      | FEET   |               |            |                     |

## LIST OF OPERATIONS DURING 1964

| Permit Number           | Township | Land Division | Location           | Operator                      | Well No. | Lease                    | Date Comp.    | Deepest Unit | Type Comp. | Initial Prod. |          | Total Depth  | Class.       | Tools    | Remarks          |
|-------------------------|----------|---------------|--------------------|-------------------------------|----------|--------------------------|---------------|--------------|------------|---------------|----------|--------------|--------------|----------|------------------|
|                         |          |               |                    |                               |          |                          |               |              |            | MCFGPD        | BOPD     |              |              |          |                  |
| WAYNE COUNTY (con.)     |          |               |                    |                               |          |                          |               |              |            |               |          |              |              |          |                  |
| OLD WELL DRILLED DEEPER |          |               |                    |                               |          |                          |               |              |            |               |          |              |              |          |                  |
| 464                     | Milton   | S 20          | 400 SL 2300 WL SW  | Roy Stewart<br>Oxford Oil Co. | 3<br>3   | J. Maibach<br>J. Maibach | 1955<br>11-28 | Sal<br>Ecr   | ?<br>--    | 350<br>--     | --<br>-- | 3409<br>5659 | Pool<br>DPWC | CT<br>CT | New footage-2250 |
|                         |          | SUMMARY       | DRILLED DEEPER-1   |                               |          |                          |               |              |            |               |          |              |              |          |                  |
|                         |          |               |                    |                               |          |                          |               |              |            |               | 0        | 0            | 2,250 FEET   |          |                  |
| OLD WELLS ABANDONED     |          |               |                    |                               |          |                          |               |              |            |               |          |              |              |          |                  |
| 55-A                    | Congress | S 12-W        | 1500 SL 600 WL SW  | Ohio Fuel Gas Co.             | 1        | B. Stillman(L. Keen)     | 1934          | Sal          | ?          | ?             | --       | 2871         | Pool         | CT       | Abd. 8-4         |
| 127                     | Congress | S 27          | 317 NL 1051 WL     | Glenn D. Hottel               | 1        | Ed Garver                | 1950          | Sal          | ?          | ?             | --       | 3210         | Pool         | CT       | Abd. 12-26       |
| 186                     | Chester  | S 31          | 660 NL 660 WL NE   | Ohio Fuel Gas Co.             | 1        | E. S. Finley             | 1936          | Sal          | ?          | 35            | --       | 3068         | Pool         | CT       | Abd. 8-7         |
| 379                     | Clinton  | S 17          | 330 SL 600 EL SE   | Ohio Fuel Gas Co.             | 2        | P. S. Rickey             | 1954          | Sal          | ?          | ?             | --       | 3055         | Pool         | CT       | Abd. 11-4        |
| 490                     | Milton   | S 29          | 330 NL 330 WL SW   | Natol Pet. Corp.              | 1        | John Marty               | 1956          | Sal          | Frac       | 398           | 40       | 3416         | Pool         | CT       | Abd. 10-21       |
| 538                     | Chippewa | S 34          | 800 SL 660 EL NE   | East Ohio Gas Co.             | 1        | J. & H. Kocsis           | 1957          | Sal          | Frac       | 1066          | --       | 3813         | Pool         | CT       | Abd. 12-3        |
| 539                     | Canaan   | S 27          | 1500 NL 550 EL NE  | Roy Stewart                   | 1        | F. H. West               | 1957          | Sal          | Frac       | --            | --       | 3322         | Pool         | CT       | Abd. 7-9         |
| 628                     | Chippewa | S 35          | 1233 NL 608 EL NW  | East Ohio Gas Co.             | 1        | G. & C. Casto            | 1957          | Sal          | Frac       | --            | --       | 3847         | Pool         | CT       | Abd. 12-17       |
| 644                     | Franklin | S 3           | 1717 SL 340 WL SE  | Franklin Oil Co.              | 3        | H. P. Ackerman           | 1957          | Snb          | ?          | --            | --       | 3095         | Pool         | CT       | Abd. 10-20       |
| 671                     | Franklin | S 3           | 2080 SL 400 EL SE  | Franklin Oil Co.              | 1        | Josephine Rayle          | 1958          | Snb          | ?          | --            | --       | 3042         | Pool         | CT       | Abd. 10-10       |
| 675                     | Canaan   | S 3           | 292 NL 942 WL Farm | J. E. Hixon (Burton)          | 2        | Morrison-Hull            | 1957          | Sal          | Frac       | 902           | 10       | 3073         | Pool         | CT       | Abd. 1-24        |
| 690                     | Franklin | S 22-S        | 518 SL 1225 WL SW  | Vanson Prod. Corp.            | 2        | Andrew Shetler           | 1958          | Sal          | Shot       | 350           | 176      | 3470         | Pool         | CT       | Abd. 8-25        |
| 717                     | Franklin | S 3           | 485 SL 775 EL NW   | Ohio Fuel Gas Co.             | 1        | R. J. Dial               | 1958          | Snb          | ?          | 2000          | --       | 3070         | Pool         | CT       | Abd. 6-3         |
| 738                     | Franklin | S 3           | 630 SL 1980 EL NE  | Franklin Oil Co.              | 1        | Robert Snure             | 1958          | Snb          | ?          | 2180          | --       | 3080         | Pool         | CT       | Abd. 11-5        |
| 754                     | Franklin | S 27          | 250 SL 1200 EL SW  | David Waldron(Hedrick)        | 1        | Cora Devore              | 1958          | Sal          | ?          | 50            | 5        | 3397         | Pool         | CT       | Abd. 6-17        |
| 757                     | Canaan   | S 35          | 350 SL 400 WL NE   | C. R. Obermiller              | 1        | Homer Miller             | 1958          | Sal          | Frac       | 20            | 10       | 3442         | Pool         | CT       | Abd. 7-27        |
| 803                     | Congress | S 36-E        | 300 SL 300 WL SE   | Dalton & Hanna(Ohio Fuel)     | 1        | E. R. Carmony            | 1959          | Sal          | ?          | ?             | --       | 3218         | Pool         | CT       | Abd. 11-25       |
| 933                     | Franklin | S 3           | 400 SL 330 EL NW   | Preston Oil Co.               | 7        | R. J. Dial               | 1959          | Snb          | ?          | 11            | --       | 3056         | Pool         | CT       | Abd. 10-15       |
| 959                     | Franklin | S 3           | 820 NL 660 WL NE   | Franklin Oil Co.              | 1        | H. V. Snure              | 1959          | Snb          | ?          | 633           | --       | 3057         | Pool         | CT       | Abd. 10-26       |
| 990                     | Wooster  | S 31          | 330 NL 320 WL SW   | Arrowhead Exploration         | 1        | Harry Fetzter            | 1959          | Sal          | Shot       | 133           | 60       | 3219         | Pool         | CT       | Abd. 6-29        |
| 1050                    | Plain    | S 36-E        | 865 SL 1460 EL NE  | Arrowhead Exploration         | 5        | R. E. Budd               | 1960          | Sal          | Frac       | 351           | 40       | 3157         | Pool         | CT       | Abd. 7-3         |
| 1096                    | Plain    | S 36-E        | 330 NL 660 EL SW   | C. G. Kuhn Dlg. Co.           | 1        | Clark Schriver           | 1960          | Sal          | Frac       | 3250          | 40       | 3122         | Pool         | CT       | Abd. 6-23        |
| 1107                    | Canaan   | S 20          | 330 NL 990 WL NE   | O. H. Parker                  | 1        | E. L. Wiles              | 1960          | Sal          | Frac       | 230           | 5        | 3260         | Pool         | CT       | Abd. 7-20        |
| 1146                    | Congress | S 14          | 350 SL 100 EL NE   | Porter O. & G. (Wilson)       | 1        | C. V. Yost               | 1960          | Snb          | Frac       | 181           | 30       | 2927         | Pool         | CT       | Abd. 3-16        |
| 1152                    | Congress | S 13-E        | 440 NL 1350 EL SW  | Clay O. & G. Corp.            | 1        | Curtis Wohlgamuth        | 1960          | Snb          | ?          | 500           | --       | 2844         | Pool         | CT       | Abd. 5-27        |
| 1166                    | Congress | S 11          | 786 SL 450 EL SE   | L. D. Porter (Mason)          | 1        | W. & N. Uhler            | 1961          | Sal          | Frac       | 1300          | --       | 3059         | Pool         | CT       | Abd. 6-15        |
| 1173                    | Canaan   | S 19          | 330 NL 700 WL NW   | W. R. Saunders                | 1        | C. & A. Irwin            | 1961          | Sal          | Frac       | 230           | 70       | 3041         | Pool         | CT       | Abd. 12-29       |
| 1183                    | Canaan   | S 17          | 790 SL 1800 EL SE  | Glenn H. Johnson              | 1        | Harold Thompson          | 1961          | Sal          | Frac       | --            | 20       | 3053         | Pool         | CT       | Abd. 9-11        |
| 1203                    | Canaan   | S 19          | 1320 NL 330 WL NW  | Paul Emch                     | 1        | C. J. Yost               | 1961          | Sal          | ?          | 20            | 10       | 3063         | Pool         | CT       | Abd. 2-4         |
| 1216                    | Canaan   | S 18          |                    | Glenn H. Johnson              | 2        | Lovina Parmenter         | ?             | Snb          | ?          | ?             | ?        | 2905         | Pool         | CT       | Abd. 8-21        |
| 1220                    | Clinton  | S 14          | 715 NL 880 EL NE   | K. Miller (Ohio Fuel)         | 1        | W. P. Critchfield        | 1961          | Sal          | Frac       | 84            | 9        | 3110         | Pool         | CT       | Abd. 6-30        |
| 1238                    | Canaan   | S 19          | 720 NL 700 WL NW   | Arjo Oil Co.                  | 2        | C. & A. Irwin            | 1961          | Sal          | Frac       | 103           | 20       | 3069         | Pool         | CT       | Abd. 11-3        |
| 1249                    | Congress | S 11          | 1680 NL 2520 WL NW | John C. Mason                 | 1        | R. Harbaugh              | 1961          | Sal          | Frac       | 30            | 10       | 2890         | Pool         | CT       | Abd. 1-29        |
| 1262                    | Canaan   | S 18          |                    | Glenn H. Johnson              | 1        | Burbank Feed & Grain     | 1961          | Sal          | ?          | --            | ?        | 3054         | Pool         | CT       | Abd. 10-9        |
| 1346                    | Canaan   | S 16          | 1650 SL 300 EL SE  | Ohio Fuel (Preston)           | 1        | F. Whonsetler            | ?             | Sal          | ?          | 49            | 20       | 3208         | Pool         | CT       | Abd. 1-23        |



## LIST OF OPERATIONS DURING 1964

| Permit Number       | Township    | Land Division | Location        |              | Operator                 | Well No.          | Lease                  | Date Comp.             | Deepest Unit | Type Comp. | Initial Prod. |        | Total Depth | Class. | Tools | Remarks   |
|---------------------|-------------|---------------|-----------------|--------------|--------------------------|-------------------|------------------------|------------------------|--------------|------------|---------------|--------|-------------|--------|-------|---|
|                     |             |               |                 |              |                          |                   |                        |                        |              |            |               | MCFGPD | BOPD        |        |       |   |
| WAYNE COUNTY (con.) |             |               |                 |              |                          |                   |                        |                        |              |            |               |        |             |        |       |   |
| 1380                | Congress    | S 14          | 2220 NL 240 EL  | NE           | Harmon & Shafer          | 3                 | C. V. Yost             | ?                      | Snb          | ?          | 20            | --     | 2915        | Pool   | CT    | Abd. 2-25                                       |
| 1384                | Canaan      | S 19          | 500 SL 100 EL   | SW           | Ohio Fuel Gas Co.        | 1                 | L. Kollert(J. Irwin)   | 1923                   | Sal          | ?          | 1020          | --     | 3237        | Pool   | CT    | Abd. 6-18                                       |
| 1385                | Canaan      | S 11          | 1000 NL 1040 EL | NE           | C. R. Obermiller         | 1                 | Harry Hawk             | ?                      | ?            | ?          | ?             | ?      | ?           | Pool   | CT    | Abd.  |
| 1386                | Chester     | S 17          | 330 SL 375 EL   | NE           | Ohio Fuel(Medina Gas)    | 1                 | B. Heckman(Imhoff)     | 1915                   | Sal          | ?          | 535           | --     | 3172        | Pool   | CT    | Abd. 7-30                                       |
| 1387                | Canaan      | S 33          | 300 SL 1050 EL  | SE           | Ohio Fuel Gas Co.        | 2                 | F. J. Lehman           | 1923                   | Sal          | ?          | 2100          | --     | 3348        | Pool   | CT    | Abd. 6-25                                       |
| 1388                | Congress    | S 6           | 660 SL 660 EL   | SE           | Ohio Fuel Gas Co.        | 1                 | M. Swack(Somerside)    | 1929                   | Sal          | ?          | 410           | --     | 2966        | Pool   | CT    | Abd. 2-29                                       |
| 1389                | Wayne       | S 18          | 300 SL 1940 EL  | NW           | Ohio Fuel Gas Co.        | 1                 | C. C. Jones(Mowery)    | 1918                   | Sal          | ?          | ?             | --     | 3296        | Pool   | CT    | Abd. 8-24                                       |
| 1390                | Plain       | S 1           | 660 NL 2600 EL  | NE           | Ohio Fuel(Logan Gas)     | 1                 | T. E. Silver(McMaster) | ?                      | Sal          | ?          | ?             | --     | ?           | Pool   | CT    | Abd. 8-?  |
| 1393                | Plain       | S 36          | 1660 NL 950 EL  | NW           | Ohio Fuel(Logan Gas)     | 1                 | J. & R. Karcher        | 1923                   | Sal          | ?          | 93            | --     | 3094        | Pool   | CT    | Abd. 8-19                                       |
| 1394                | Plain       | S 7           | 170 SL 638 EL   | NW           | Ohio Fuel Gas Co.        | 1                 | T. D. Grandstaff       | 1923                   | Sal          | ?          | 198           | --     | 2942        | Pool   | CT    | Abd. 8-27                                       |
| 1396                | Congress    | S 8           | 2350 NL 2480 EL | NE           | Ohio Fuel Gas Co.        | 1                 | G. I. Henning(Taylor)  | 1912                   | Sal          | ?          | ?             | --     | 3004        | Pool   | CT    | Abd. 7-18                                       |
| 1397                | Plain       | S 25-W        | 389 SL 1530 WL  | SW           | Ohio Fuel(Logan Gas)     | 2                 | A. W. Tyler            | 1923                   | Sal          | ?          | 272           | --     | 3072        | Pool   | CT    | Abd. 6-17                                       |
|                     |             |               | SUMMARY         | ABANDONED-47 |                          |                   |                        |                        |              |            |               |        |             |        |       |   |
| STORAGE WELLS       |             |               |                 |              |                          |                   |                        |                        |              |            |               |        |             |        |       |   |
|                     |             |               | Clinton         |              |                          | Ohio Fuel Gas Co. |                        | "Clinton" Storage Area |              |            |               |        |             |        |       |   |
|                     |             |               | SUMMARY         | STORAGE-1    |                          | TOTAL FEET-3035   |                        |                        |              |            |               |        |             |        |       |   |
| WILLIAMS COUNTY     |             |               |                 |              |                          |                   |                        |                        |              |            |               |        |             |        |       |   |
| 33                  | St. Joseph  | S 21          | 990 NL 990 EL   | NE           | U. S. Can Corp. (Walton) | 1-A               | Owen Kennerk           | 8-26                   | Ot           | Acid       | --            | 10     | 2224        | FWC    | CT    | Active<br>Abd. loc.<br>Oil 3 BPD<br>Active      |
| 34                  | St. Joseph  | S 21          | 311 SL 350 EL   | NE           | Walter Beglinger         | 1                 | Owen Kennerk           |                        |              |            |               |        |             | FWC    | CT    |   |
| 35                  | Bridgewater | S 23          | 846 SL 900 WL   | NW           | Astro Pet. & Invest.     | 1                 | L. & R. Wisman         |                        |              |            |               |        |             | FWC    | CT    |   |
| 36                  | St. Joseph  | S 21          | 331 NL 278 EL   | NE           | U. S. Can Corp.          | 2-A               | Owen Kennerk           | 11-?                   | Ot           | --         | --            | --     | 2156        | FWC    | CT    |   |
| 37                  | Center      | S 25          | 884 SL 1600 EL  | NE           | Tamp Oil Co.             | 1                 | Reo Wineland           |                        |              |            |               |        |             | FWC    | CT    |   |
|                     |             |               | SUMMARY         | GAS-0        | OIL-1                    | COMBINATION-0     |                        | DRY-1                  | TOTAL-2      |            | 0             | 10     | 4,380 FEET  |        |       |   |
| WOOD COUNTY         |             |               |                 |              |                          |                   |                        |                        |              |            |               |        |             |        |       |   |
| 221                 | Perrysburg  | S 19          | 300 NL 300 EL   | SW           | James E. Huntington      | 1                 | George Suter           |                        |              |            |               |        |             | Pool   | CT    | Canceled  |
| 228                 | Montgomery  | S 14          | 330 SL 990 EL   | SE           | Russell W. Cooper        | 1                 | Floyd Knisely          | 7-15                   | Ot           | Shot       | --            | --     | 1248        | Pool   | CT    |   |
| 229                 | Center      | S 31          | 330 NL 990 EL   | SW           | Southern Triangle Oil    | 1                 | B. B. Knauss           | 7-5                    | C det?       | --         | --            | --     | 2764        | FWC    | CT    |   |
| 230                 | Montgomery  | S 13          | 2209 SL 440 WL  | SW           | Russell W. Cooper        | 1                 | P. E. Cox              | 10-1                   | Ot           | Shot       | --            | ?      | 1256        | Pool   | CT    |   |
| 231                 | Liberty     | S 36          | 230 SL 1560 WL  | SW           | Joseph I. O'Neill, Jr.   | 1                 | L. L. Peek             | 9-14                   | PC           | --         | --            | --     | 2770        | FWC    | RT    |   |
| 232                 | Washington  | S 4           | 2400 SL 230 WL  | SW           | Joseph L. O'Neill, Jr.   | 1                 | Ellen Foote            | 9-24                   | C            | --         | --            | --     | 2212        | FWC    | RT    | OW Abd.<br>Active<br>Active<br>Active<br>Active |
| 233                 | Montgomery  | S 4           | 2400 SL 1900 EL | SE           | Oscar Hoffman Oil        | 2                 | J. & Z. Daily          |                        |              |            |               |        |             | Pool   | CT    |   |
| 234                 | Plain       | S 16          | 2359 NL 2312 WL | NW           | Black River O. & G.      | 1                 | Henry Tober            |                        |              |            |               |        |             | FWC    | CT    |   |
| 235                 | Perry       | S 4           | 2270 SL 1140 WL | SW           | W. H. Dennis & Son       | 1                 | A. Rosendale           |                        |              |            |               |        |             | Pool   | CT    |   |
| 236                 | Plain       | S 1           | 332 NL 437 EL   | NW           | Kin-Ark Oil Co.          | 1                 | R. V. Smith            |                        |              |            |               |        |             | FWC    | RT    |   |
| 237                 | Center      | S 4           | 990 NL 330 WL   | SE           | Kin-Ark Oil Co.          | 1                 | E. Carter              |                        |              |            |               |        |             | FWC    | RT    |   |
|                     |             |               | SUMMARY         | GAS-0        | OIL-0                    | COMBINATION-0     |                        | DRY-5                  | TOTAL-5      |            | 0             | 0      | 10,250 FEET |        |       |   |

LIST OF OPERATIONS DURING 1964

| Permit Number       | Township   | Land Division | Location        | Operator                   | Well No. | Lease                       | Date Comp. | Deepest Unit | Type Comp. | Initial Prod. |      | Total Depth | Class. | Tools | Remarks      |
|---------------------|------------|---------------|-----------------|----------------------------|----------|-----------------------------|------------|--------------|------------|---------------|------|-------------|--------|-------|--------------|
|                     |            |               |                 |                            |          |                             |            |              |            | MCFGPD        | BOPD |             |        |       |              |
| WOOD COUNTY (con.)  |            |               |                 |                            |          |                             |            |              |            |               |      |             |        |       |              |
| OLD WELLS ABANDONED |            |               |                 |                            |          |                             |            |              |            |               |      |             |        |       |              |
| 73                  | Center     | S 19          |                 | Bowling Green State Univ.  | 1-A      | Bowling Green State Univ. ? |            | ?            | ?          | ?             | ?    | 781         | Pool   | CT    | Abd. 10-19   |
| 224                 | Henry      | S 16          | 675 SL 1770 EL  | NE D. Brown Co.            | 10       | Martha Bloom                | 1918       | Ot           | ?          | --            | ?    | 1375        | Pool   | CT    | Abd. 1-22    |
| 225-9               | Henry      | S 16          | 1155 SL 200 WL  | NE D. Brown Co.            | 9        | L. Swope                    | 1918       | Ot           | ?          | --            | ?    | 1360        | Pool   | CT    | Abd. 12-1963 |
| 225-10              | Henry      | S 16          | 675 SL 200 WL   | NE D. Brown Co.            | 10       | L. Swope                    | 1918       | Ot           | ?          | --            | ?    | 1375        | Pool   | CT    | Abd. 12-1963 |
| 226                 | Freedom    | S 13          | 800 SL 250 EL   | SE Oscar Hoffman Oil       | 1        | Michael Dochenetz           | ?          | ?            | ?          | --            | ?    | 1250        | Pool   | CT    | Abd. 2-15    |
| 227                 | Henry      | L 113         | 106 NL 48 EL    | Ohio Power Co.             | 1        | Ohio Power Co.              | ?          | ?            | ?          | ?             | ?    | 1200        | Pool   | CT    | Abd. 3-13    |
| 233                 | Montgomery | S 4           | 2400 SL 1900 EL | SE Oscar Hoffman Oil       | 2        | J. & Z. Daily               | ?          | ?            | ?          | ?             | ?    | ?           | Pool   | CT    | Abd. 11-25   |
|                     |            | SUMMARY       | ABANDONED-7     |                            |          |                             |            |              |            |               |      |             |        |       |              |
| WYANDOT COUNTY      |            |               |                 |                            |          |                             |            |              |            |               |      |             |        |       |              |
| 171                 | Sycamore   | S 15          | 660 NL 660 WL   | NW Tri-State Prod. Co.     | 1        | Frank Harper                | 1-15       | €cr          | --         | --            | --   | 2550        | FWC    | CT    | Canceled     |
| 172                 | Crane      | S 16          | 1490 SL 2085 WL | SE Perry Fulk, Sr.         | 1        | Ward Walton                 | 2-4        | €cr          | --         | --            | --   | 2115        | FWC    | CT    |              |
| 173                 | Salem      | S 31          | 330 SL 990 EL   | SW Comanche Oil Co.        | 1        | Isodore Frey                | 2-6        | PC           | --         | --            | --   | 2875        | FWC    | CT    |              |
| 174                 | Mifflin    | S 14          | 330 NL 330 EL   | NW Texas Co.               | 1        | M. E. Bowen                 | 4-30       | PC           | --         | --            | --   | 2902        | FWC    | RT    |              |
| 175                 | Pitt       | S 35          | 100 NL 1680 EL  | SE G. B. Harris            | 1        | Village of Little Sandusky  |            |              |            |               |      |             | FWC    | RT    |              |
| 176                 | Pitt       | S 35          | 420 NL 1800 EL  | SE G. B. Harris            | 2        | Village of Little Sandusky  |            |              |            |               |      |             | FWC    | RT    | Canceled     |
| 177                 | Crane      | S 18          | 990 NL 660 WL   | NW Texas Coastal Oil Corp. | 1        | Willie Binau                | 7-8        | Ot           | Frac       | --            | 20   | 1508        | Pool   | RT    |              |
| 178                 | Antrim     | S 32          | 330 NL 380 WL   | NE George C. Schoonmaker   | 1        | M. L. Gould                 | 7-13       | €cr          | --         | --            | --   | 2506        | FWC    | RT    |              |
| 179                 | Cranford   | S 33          | 561 SL 1030 WL  | NE Barnwell Prod. Co.      | 1        | Kenneth O'Brien             | 10-11      | €cr          | --         | --            | --   | 1951        | FWC    | RT    |              |
| 180                 | Tymochtee  | S 27          | 990 NL 990 WL   | NW W. L. Lichlyter         | 1        | J. C. Bowman                |            |              |            |               |      |             | FWC    | RT    |              |
| 181                 | Crane      | S 18          | 230 NL 890 WL   | NW Texas Coastal Oil Corp. | 2        | Willis Binau                |            |              |            |               |      |             | Pool   | CT    | Abd. loc.    |
| 182                 | Crane      | S 19          | 330 NL 330 EL   | SW M. L. Vance             | 1        | M. E. Bowen                 | 8-31       | €cr          | --         | --            | --   | 1981        | DPWC   | CT    |              |
| 183                 | Crane      | S 33          | 990 SL 330 EL   | SE C. J. Rider             | 1        | R. D. Newell                | 12-30      | Ot           | ?          | --            | 10   | 1366        | Pool   | RT    |              |
| 184                 | Mifflin    | S 10          | 232 NL 237 EL   | SW Clinton Oil Co.         | 1        | R. S. Fox                   | 7-24       | €cr          | --         | --            | --   | 2003        | NWC    | CT    |              |
| 185                 | Salem      | S 12          | 230 SL 230 EL   | SE Mrs. Delma Santoro      | 1        | R. F. Roszman               | 8-20       | Ot           | --         | --            | --   | 1327        | FWC    | RT    |              |
| 186                 | Pitt       | S 12          | 330 NL 990 WL   | NW J. D. Turner            | 1        | R. C. Hull                  | 11-11      | €cr          | --         | --            | --   | 2306        | FWC    | CT    |              |
| 187                 | Pitt       | S 24          | 2200 NL 950 WL  | NW Kissinger & Co.         | 1        | E. B. Lawrence              | 9-30       | €cr          | --         | --            | --   | 2278        | FWC    | CT    |              |
| 188                 | Salem      | S 12          | 430 SL 1090 EL  | SE Mrs. Delma Santoro      | 2        | R. F. Roszman               | 8-28       | Ot           | --         | --            | --   | 1347        | Pool   | RT    |              |
| 189                 | Mifflin    | S 27          | 230 NL 890 WL   | SE Clinton Oil Co.         | 1        | D. J. Needs                 | 10-5       | €cr          | --         | --            | --   | 2264        | Pool   | CT    |              |
| 190                 | Sycamore   | S 3           | 330 NL 330 EL   | SW M. L. Vance             | 1        | Cleo Koehl                  | 11-20      | €cr          | --         | --            | --   | 2477        | FWC    | RT    |              |
| 191                 | Ridge      | S 2           | 410 NL 1626 WL  | NW Ham's Engineering       | 1        | Alpha Saltzman              | 11-20      | Ot           | Shot       | --            | 4    | 1450        | Pool   | CT    | Active       |
| 192                 | Crane      | S 3-S         | 330 SL 330 EL   | SE Clyde G. Kissinger      | 1        | F. P. Smalley               | 12-31      | €cr          | --         | --            | --   | 2123        | FWC    | CT    |              |
| 193                 | Mifflin    | S 25          | 230 SL 230 WL   | NW Clinton Oil Co.         | 1        | Crabarkalee Farms           | 12-12      | €cr          | --         | --            | --   | 2104        | FWC    | CT    |              |
| 194                 | Ridge      | S 2           | 1328 SL 106 EL  | NW Harris Engineering      | 2        | Alpha Saltzman              |            |              |            |               |      |             | Pool   | CT    |              |
| 195                 | Ridge      | S 2           | 0 SL 293 WL     | NE Harris Engineering      | 3        | Alpha Saltzman              | 12-29      | Ot           | --         | --            | --   | 1488        | Pool   | CT    |              |
| 196                 | Ridge      | S 2           | 427 NL 443 EL   | SW Harris Engineering      | 4        | Alpha Saltzman              |            |              |            |               |      |             | Pool   | CT    | Active       |
| 197                 | Tymochtee  | S 6           | 364 SL 287 WL   | NE Jack W. Holtz           | 1        | C. & J. Weikert             |            |              |            |               |      |             | DPWC   | CT    |              |
| 198                 | Ridge      | S 2           | 587 SL 557 WL   | NW Harris Engineering      | 1        | Raymond Tong                |            |              |            |               |      |             | Pool   | CT    |              |
| 199                 | Tymochtee  | S 8           | 1696 NL 1094 WL | NW N. Basel-J. Oldham      | 1        | R. E. Gilliland             |            |              |            |               |      |             | Pool   | CT    |              |
| 200                 | Crawford   | S 34          | 2200 NL 890 EL  | NW John F. Wolcott         | 1        | Lawrence Sammett            |            |              |            |               |      |             | Pool   | CT    |              |
| 201                 | Crane      | S 4-S         | 990 SL 990 EL   | NE Basore-Cameron          | 1        | L. J. Filliator             |            |              |            |               |      |             | Pool   | CT    | Active       |
| 202                 | Ridge      | S 2           | 350 SL 882 WL   | NW Harris Engineering      | 1-A      | Raymond Tong                |            |              |            |               |      |             | Pool   | CT    |              |
|                     |            | SUMMARY       | GAS-0 OIL-3     | COMBINATION-0              |          | DRY-17 TOTAL-20             |            |              |            |               | 0    | 34          | 40,921 | FEET  |              |

TABLE I

SUMMARY OF OIL AND GAS WELL DRILLING, BY COUNTIES, 1964<sup>(1)</sup>

| County     | Gas wells |         |         | Oil Wells |         |           | Combination Wells |        |       |         | Total Producing Wells |         |         |           | Dry Holes |           | Total Wells | Total Feet | Percent Productive |
|------------|-----------|---------|---------|-----------|---------|-----------|-------------------|--------|-------|---------|-----------------------|---------|---------|-----------|-----------|-----------|-------------|------------|--------------------|
|            | No.       | MCFGPD  | Feet    | No.       | BOPD    | Feet      | No.               | MCFGPD | BOPD  | Feet    | No.                   | MCFGPD  | BOPD    | Feet      | No.       | Feet      |             |            |                    |
| Adams      | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 2         | 5510      | 2           | 5510       | 0.00               |
| Allen      | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 4         | 9227      | 4           | 9227       | 0.00               |
| Ashland    | 1*        | 1500    | --*     | 41        | 255     | 28478     | 1                 | 2000   | 140   | 4262    | 43*                   | 3500    | 395     | 32740     | 36        | 62655     | 79*         | 95395      | 54.43              |
| Ashtabula  | 4         | 7131    | 13210   | --        | --      | --        | 1                 | 1042   | 5     | 3417    | 5                     | 8173    | 5       | 16627     | 1         | 3257      | 6           | 19884      | 83.60              |
| Athens     | 4         | 1194    | 10032   | 8         | 54      | 9756      | 14                | 1904   | 260   | 22379   | 26                    | 3098    | 314     | 42167     | 6         | 6373      | 32          | 48540      | 81.25              |
| Auglaize   | 2*        | 375     | 1710    | --        | --      | --        | --                | --     | --    | --      | 2*                    | 375     | --      | 1710      | 7         | 14562     | 9*          | 16272      | 22.22              |
| Belmont    | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 3         | 5122      | 3           | 5122       | 0.00               |
| Carroll    | --        | --      | --      | 2         | 61      | 6026      | --                | --     | --    | --      | 2                     | --      | 61      | 6026      | --        | --        | 2           | 6026       | 100.00             |
| Champaign  | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 5         | 12018     | 5           | 12018      | 0.00               |
| Clark      | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 2         | 5773      | 2           | 5773       | 0.00               |
| Clinton    | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 3325      | 1           | 3325       | 0.00               |
| Columbiana | --        | --      | --      | 1         | 1       | 584       | --                | --     | --    | --      | 1                     | --      | 1       | 584       | 2         | 6932      | 3           | 7518       | 33.33              |
| Coshocton  | 3         | 818     | 10397   | 55        | 3245    | 169439    | 14                | 4807   | 779   | 47316   | 72                    | 5625    | 4024    | 227152    | 5         | 11030     | 77          | 238182     | 93.50              |
| Crawford   | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 27        | 85883     | 27          | 85883      | 0.00               |
| Defiance   | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 2048      | 1           | 2048       | 0.00               |
| Delaware   | 1*        | 4435    | --*     | 16*       | 817     | 44001     | --                | --     | --    | --      | 17*                   | 4435    | 817     | 44001     | 153       | 458331    | 170*        | 502332     | 10.00              |
| Erie       | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 3045      | 1           | 3045       | 0.00               |
| Fairfield  | 2         | 10240   | 6509    | 2         | 20      | 4902      | 1                 | 100    | 60    | 2605    | 5                     | 10340   | 80      | 14016     | 10        | 33014     | 15          | 47030      | 33.33              |
| Fayette    | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 3643      | 1           | 3643       | 0.00               |
| Franklin   | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 7         | 21725     | 7           | 21725      | 0.00               |
| Fulton     | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 2793      | 1           | 2793       | 0.00               |
| Gallia     | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 1453      | 1           | 1453       | 0.00               |
| Guernsey   | --        | --      | --      | 2         | 20      | 7209      | --                | --     | --    | --      | 2                     | --      | 20      | 7209      | 3         | 1265      | 5           | 8474       | 40.00              |
| Hancock    | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 10        | 20728     | 10          | 20728      | 0.00               |
| Hardin     | 1         | 280     | 1468    | 2*        | 18      | --*       | --                | --     | --    | --      | 3*                    | 280     | 18      | 1468      | 11        | 27102     | 14*         | 28570      | 21.48              |
| Henry      | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 2385      | 1           | 2385       | 0.00               |
| Highland   | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 2392      | 1           | 2392       | 0.00               |
| Hocking    | 4         | 4769    | 12227   | 7         | 203     | 19122     | 16                | 4243   | 506   | 45104   | 27                    | 9012    | 709     | 76453     | 2         | 5394      | 29          | 81847      | 93.10              |
| Holmes     | 6*        | 7315    | 16800   | 6         | 120     | 20042     | 5                 | 1993   | 96    | 16712   | 17*                   | 9308    | 216     | 53554     | 5         | 27899     | 21*         | 81443      | 80.95              |
| Huron      | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 8         | 28975     | 8           | 28975      | 0.00               |
| Jackson    | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 5         | 21828     | 5           | 21828      | 0.00               |
| Jefferson  | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 1481      | 1           | 1481       | 0.00               |
| Knox       | 4*        | 7943    | 5049    | 31*       | 1688    | 88085     | 9                 | 3103   | 707   | 26327   | 44*                   | 11046   | 2395    | 119461    | 32        | 142103    | 76*         | 261564     | 57.89              |
| Licking    | 3         | 2963    | 7903    | 38        | 1805    | 98721     | 33                | 11052  | 1619  | 99047   | 74                    | 14015   | 3424    | 205671    | 15        | 46711     | 89          | 252382     | 83.14              |
| Logan      | 5*        | 1470    | 5937    | --        | --      | --        | --                | --     | --    | --      | 5*                    | 1470    | --      | 5937      | 10        | 25484     | 15*         | 31421      | 33.33              |
| Lorain     | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 2         | 6640      | 2           | 6640       | 0.00               |
| Madison    | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 1         | 2244      | 1           | 2244       | 0.00               |
| Mahoning   | 4         | 2251    | 20453   | --        | --      | --        | --                | --     | --    | --      | 4                     | 2251    | --      | 20453     | 3         | 13849     | 7           | 34302      | 57.14              |
| Marion     | 1*        | 1500    | --*     | --        | --      | --        | --                | --     | --    | --      | 1*                    | 1500    | --*     | --*       | 46        | 122571    | 47*         | 122571     | 2.12               |
| Medina     | 6         | 9418    | 18572   | 6         | 163     | 18466     | 11                | 6173   | 741   | 37979   | 23                    | 15591   | 904     | 75017     | 9         | 22771     | 32          | 97788      | 71.87              |
| Meigs      | 4         | 801     | 3814    | 2         | 6       | 2379      | --                | --     | --    | --      | 6                     | 801     | 6       | 6193      | 6         | 5801      | 12          | 11994      | 50.00              |
| Mercer     | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 2         | 3520      | 2           | 3520       | 0.00               |
| Monroe     | 3         | 1574    | 4787    | 9         | 33      | 12875     | --                | --     | --    | --      | 12                    | 1574    | 33      | 17662     | 3         | 3705      | 15          | 21367      | 80.00              |
| Morgan     | 1         | 2500    | 4160    | 6         | 11      | 2457      | 1                 | 73     | 10    | 1284    | 8                     | 2573    | 21      | 7901      | 6         | 7017      | 14          | 14918      | 57.14              |
| Morrow     | 11*       | 25669   | 34245   | 411*      | 94918   | 1329833   | 9                 | 7395   | 2028  | 31367   | 431*                  | 33064   | 96946   | 1395445   | 911       | 3031335   | 1342*       | 4426780    | 32.11              |
| Muskingum  | 7         | 6800    | 24388   | 7         | 335     | 22483     | 14                | 12432  | 408   | 48570   | 28                    | 18737   | 743     | 95441     | 1         | 4281      | 29          | 99722      | 96.55              |
| Noble      | --        | --      | --      | 1         | 2       | 290       | --                | --     | --    | --      | 1                     | --      | 2       | 290       | 10        | 10497     | 11          | 10787      | 9.09               |
| Perry      | 7         | 7105    | 18384   | 17        | 446     | 44739     | 19                | 10445  | 955   | 63619   | 43                    | 17550   | 1401    | 126742    | 5         | 16668     | 48          | 143410     | 89.58              |
| Pickaway   | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 6         | 19035     | 6           | 19035      | 0.00               |
| Pike       | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 3         | 10639     | 3           | 10639      | 0.00               |
| Portage    | 77        | 123078  | 355278  | 2         | 35      | 8982      | 21                | 14214  | 290   | 97179   | 100                   | 137292  | 325     | 461439    | 9         | 42432     | 109         | 503871     | 91.74              |
| Putnam     | --        | --      | --      | 1         | 20      | 1408      | --                | --     | --    | --      | 1                     | --      | 20      | 1408      | 2         | 3950      | 3           | 5358       | 33.33              |
| Richland   | 4*        | 2982    | 8473    | --        | --      | --        | --                | --     | --    | --      | 4*                    | 2982    | --      | 8473      | 41        | 160383    | 45*         | 168856     | 91.02              |
| Ross       | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 6         | 22107     | 6           | 22107      | 0.00               |
| Sandusky   | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 4         | 9426      | 4           | 9426       | 0.00               |
| Scioto     | --        | --      | --      | 2         | 3       | 1285      | --                | --     | --    | --      | 2                     | --      | 3       | 1285      | 3         | 7038      | 5           | 8323       | 40.00              |
| Seneca     | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 13        | 30451     | 13          | 30451      | 0.00               |
| Shelby     | --        | --      | --      | 1         | 10      | 1340      | --                | --     | --    | --      | 1                     | --      | 10      | 1340      | 2         | 4427      | 3           | 5767       | 33.33              |
| Stark      | 2         | 1535    | 9641    | 1         | 15      | 4338      | --                | --     | --    | --      | 3                     | 1535    | 15      | 13979     | 3         | 14840     | 6           | 28819      | 50.00              |
| Summit     | 4         | 2810    | 16943   | --        | --      | --        | 3                 | 2472   | 35    | 13272   | 7                     | 5282    | 35      | 30215     | --        | --        | 7           | 30215      | 100.00             |
| Trumbull   | 1         | 1084    | 5201    | --        | --      | --        | --                | --     | --    | --      | 1                     | 1084    | --      | 5201      | 1         | 4490      | 2           | 9891       | 50.00              |
| Tuscarawas | 9         | 7523    | 20539   | 6         | 22      | 6084      | 4                 | 4310   | 45    | 20428   | 19                    | 11833   | 67      | 47051     | 11        | 19550     | 30          | 66601      | 63.33              |
| Union      | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 18        | 44435     | 18          | 44435      | 0.00               |
| Van Wert   | --        | --      | --      | 1         | 50      | 1245      | --                | --     | --    | --      | 1                     | --      | 50      | 1245      | 2         | 3410      | 3           | 4655       | 33.33              |
| Vinton     | 1         | 6730    | 3078    | 8         | 54      | 8493      | 1                 | 500    | 24    | 1313    | 10                    | 7230    | 78      | 12884     | 3         | 6181      | 13          | 19065      | 76.92              |
| Washington | 18        | 13749   | 28446   | 20        | 165     | 21784     | 6                 | 2811   | 22    | 10553   | 44                    | 16560   | 187     | 60783     | 17        | 18426     | 61          | 79209      | 72.13              |
| Wayne      | 2         | 3200    | 6908    | 1         | 30      | 3243      | 4                 | 1098   | 98    | 15992   | 7                     | 4298    | 128     | 26143     | 7         | 17663     | 14          | 43808      | 50.00              |
| Williams   | --        | --      | --      | 1         | 10      | 2224      | --                | --     | --    | --      | 1                     | --      | 10      | 2224      | 1         | 2156      | 2           | 4380       | 50.00              |
| Wood       | --        | --      | --      | --        | --      | --        | --                | --     | --    | --      | --                    | --      | --      | --        | 5         | 10250     | 5           | 10250      | 0.00               |
| Wyandot    | --        | --      | --      | 3         | 34      | 4324      | --                | --     | --    | --      | 3                     | --      | 34      | 4324      | 17        | 36597     | 20          | 40921      | 15.00              |
| Total      | 202*      | 270,722 | 674,552 | 717*      | 104,669 | 1,994,637 | 187*              | 92,187 | 8,828 | 608,725 | 1106*                 | 362,889 | 113,497 | 3,277,914 | 1559      | 4,850,305 | 2665*       | 8,128,219  | **                 |

(1) Wells drilled deeper, for gas storage, and for secondary recovery are not included.

\* Includes plugged back producing zone; footage assigned to deepest unit penetrated.

\*\* Productive well average: 45.25%

TABLE II  
NUMBER AND PERCENT OF WELL COMPLETIONS, 1955-1964<sup>(1)</sup>

| Year | Gas Wells |         | Oil Wells |         | Combination Wells |         | Dry Holes |         | Total<br>No. Wells |
|------|-----------|---------|-----------|---------|-------------------|---------|-----------|---------|--------------------|
|      | No.       | Percent | No.       | Percent | No.               | Percent | No.       | Percent |                    |
| 1955 | 246       | 18.26   | 509       | 37.79   | 166               | 12.32   | 426       | 31.63   | 1347               |
| 1956 | 173       | 14.59   | 455       | 38.36   | 175               | 14.76   | 383       | 32.29   | 1186               |
| 1957 | 181       | 16.64   | 426       | 39.15   | 182               | 16.73   | 299       | 27.48   | 1088               |
| 1958 | 256       | 22.26   | 305       | 26.53   | 288               | 25.04   | 301       | 26.17   | 1150               |
| 1959 | 299       | 27.28   | 298       | 27.20   | 207               | 18.88   | 292       | 26.64   | 1096               |
| 1960 | 244       | 24.02   | 218       | 21.46   | 245               | 24.11   | 309       | 30.41   | 1016               |
| 1961 | 211       | 19.11   | 427       | 38.68   | 171               | 15.49   | 295       | 26.72   | 1104               |
| 1962 | 216       | 18.85   | 384       | 33.51   | 221               | 19.28   | 325       | 28.36   | 1146               |
| 1963 | 218       | 18.87   | 409       | 35.41   | 121               | 10.48   | 407       | 35.24   | 1155               |
| 1964 | 202*      | 7.58    | 717*      | 26.90   | 187*              | 7.02    | 1559      | 58.50   | 2665*              |

(1) Wells drilled deeper, for gas storage, and for secondary recovery are not included.

\* Includes plugged back producers. Gas - 9, Oil - 10, Combination - 1 Total - 20 wells.

TABLE III  
SUMMARY OF OIL AND GAS WELL DRILLING, BY PRODUCING ZONES, 1964<sup>(1)</sup>

| Producing Zone                             | Gas Wells |         |         | Oil Wells |         |           | Combination Wells |        |       | Total Producing Wells |       |         |         | Dry Holes |      | Total<br>Wells | Total<br>Feet | Percent<br>Productive |
|--|-----------|---------|---------|-----------|---------|-----------|-------------------|--------|-------|-----------------------|-------|---------|---------|-----------|------|----------------|---------------|-----------------------|
|  | No.       | MCFGPD  | Feet    | No.       | BOPD    | Feet      | No.               | MCFGPD | BOPD  | Feet                  | No.   | MCFGPD  | BOPD    | Feet      | No.  | Feet           |               |                       |
| Pennsylvanian                              | 7         | 2298    | 5835    | 23        | 88      | 14042     | 1                 | 288    | 1     | 766                   | 31    | 2533    | 89      | 20463     | 35   | 26035          | 66            | 45498                 |
| Upper Mississippian<br>(Keener, Big Injun) | 3         | 1456    | 4387    | 12        | 31      | 15599     | --                | --     | --    | --                    | 15    | 1456    | 31      | 19986     | 10   | 10344          | 25            | 30330                 |
| Lower Mississippian<br>(Berea, Cussewago)  | 26        | 16923   | 37562   | 88        | 554     | 80009     | 22                | 5230   | 316   | 35563                 | 138   | 22153   | 870     | 153134    | 80   | 55870          | 198           | 209004                |
| Ohio Shale                                 | --        | --      | --      | --        | --      | --        | --                | --     | --    | --                    | --    | --      | --      | --        | 2    | 3396           | 2             | 3396                  |
| Oriskany                                   | 1         | 649     | 3195    | 3         | 26      | 9159      | --                | --     | --    | --                    | 4     | 649     | 26      | 12354     | --   | --             | 4             | 12354                 |
| "Newburg"                                  | 6*        | 11710   | 9072    | --        | --      | --        | --                | --     | --    | --                    | 6*    | 11710   | --      | 9072      | 3    | 5806           | 9*            | 14878                 |
| Clinton                                    | 138*      | 202448  | 565411  | 153*      | 8043    | 483074    | 153               | 77084  | 6333  | 530947                | 444*  | 279532  | 14376   | 1579432   | 65   | 230973         | 508*          | 1610405               |
| Ordovician Shale                           | --        | --      | --      | 1*        | 25      | *         | --                | --     | --    | --                    | 1*    | --      | 25      | *         | 5    | 7989           | 6*            | 7989                  |
| Trenton-Black River                        | 10*       | 8060    | 9115    | 9*        | 142     | 10541     | --                | --     | --    | --                    | 19*   | 8060    | 142     | 19656     | 15   | 22622          | 34*           | 42278                 |
| Chazy ("Gull River")                       | 1*        | 532     | *       | 5*        | 1110    | *         | --                | --     | --    | --                    | 6*    | 532     | 1110    | *         | 2    | 6005           | 8*            | 6005                  |
| Cambrian                                   | 10        | 26949   | 40155   | 423       | 94650   | 1382213   | 11                | 9595   | 2178  | 41449                 | 444   | 36244   | 96828   | 1463817   | 1349 | 4434353        | 1793          | 5896170               |
| Precambrian                                | --        | --      | --      | --        | --      | --        | --                | --     | --    | --                    | --    | --      | --      | --        | 13   | 47912          | 13            | 47912                 |
| Total                                      | 202*      | 270,722 | 874,552 | 717*      | 104,669 | 1,994,637 | 187               | 92,187 | 6,828 | 808,725               | 1108* | 362,899 | 113,497 | 3,277,914 | 1559 | 4,850,305      | 2665*         | 8,128,219             |

(1) Wells drilled deeper, for gas storage, and for secondary recovery not included.

\* Includes plugged back producing zone; footage assigned to deepest unit penetrated.

\*\* Productive well average: 41.55%

TABLE IV

SUMMARY OF OIL AND GAS WELL DRILLING, BY PRODUCING ZONES AND COUNTIES, 1964<sup>(1)</sup>

| Producing Zone and County                  | Gas Wells |        |        | Oil Wells |      |        | Combination Wells |        |      |        | Total Producing Wells |        |      |         | Dry Holes |        | Total Wells | Total Feet | Percent Productive |
|--|-----------|--------|--------|-----------|------|--------|-------------------|--------|------|--------|-----------------------|--------|------|---------|-----------|--------|-------------|------------|--------------------|
|  | No.       | MCFGPD | Feet   | No.       | BOPD | Feet   | No.               | MCFGPD | BOPD | Feet   | No.                   | MCFGPD | BOPD | Feet    | No.       | Feet   |             |            |                    |
| Pennsylvanian                              |           |        |        |           |      |        |                   |        |      |        |                       |        |      |         |           |        |             |            |                    |
| Athens                                     | --        | --     | --     | 1         | 1    | 426    | --                | --     | --   | --     | 1                     | --     | 1    | 426     | 2         | 756    | 3           | 1182       | 33.33              |
| Guernsey                                   | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 3         | 1265   | 3           | 1265       | 0.00               |
| Meigs                                      | 3         | 656    | 1820   | 1         | 1    | 805    | --                | --     | --   | --     | 4                     | 656    | 1    | 2625    | 5         | 3551   | 9           | 6176       | 44.44              |
| Monroe                                     | --        | --     | --     | 2         | 13   | 2082   | --                | --     | --   | --     | 2                     | --     | 13   | 2082    | 1         | 1085   | 3           | 3167       | 66.66              |
| Morgan                                     | --        | --     | --     | 5         | 5    | 834    | --                | --     | --   | --     | 5                     | --     | 5    | 834     | 4         | 690    | 9           | 1524       | 55.55              |
| Noble                                      | --        | --     | --     | 1         | 2    | 290    | --                | --     | --   | --     | 1                     | --     | 2    | 290     | 7         | 5540   | 8           | 5830       | 12.50              |
| Washington                                 | 4         | 1639   | 3835   | 13        | 66   | 9605   | 1                 | 258    | 1    | 766    | 18                    | 1897   | 67   | 14206   | 13        | 12148  | 31          | 26354      | 58.06              |
| Total                                      | 7         | 2,295  | 5,655  | 23        | 88   | 14,042 | 1                 | 258    | 1    | 766    | 31                    | 2,553  | 89   | 20,463  | 35        | 25,035 | 66          | 45,498     | 46.96              |
| Upper Mississippian<br>(Keener, Big Injun) |           |        |        |           |      |        |                   |        |      |        |                       |        |      |         |           |        |             |            |                    |
| Athens                                     | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 2         | 2288   | 2           | 2288       | 0.00               |
| Belmont                                    | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 2         | 2867   | 2           | 2867       | 0.00               |
| Columbiana                                 | --        | --     | --     | 1         | 1    | 584    | --                | --     | --   | --     | 1                     | --     | 1    | 584     | --        | --     | 1           | 584        | 100.00             |
| Coshocton                                  | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 2         | 964    | 2           | 964        | 0.00               |
| Jackson                                    | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 1         | 895    | 1           | 895        | 0.00               |
| Monroe                                     | 2         | 1177   | 2862   | 7         | 20   | 10793  | --                | --     | --   | --     | 9                     | 1177   | 20   | 13655   | 1         | 1380   | 10          | 15035      | 90.00              |
| Scioto                                     | --        | --     | --     | 2         | 3    | 1285   | --                | --     | --   | --     | 2                     | --     | 3    | 1285    | 1         | 350    | 3           | 1635       | 66.66              |
| Washington                                 | 1         | 279    | 1525   | 2         | 7    | 2937   | --                | --     | --   | --     | 3                     | 279    | 7    | 4462    | 1         | 1600   | 4           | 6062       | 75.00              |
| Total                                      | 3         | 1,456  | 4,387  | 12        | 31   | 15,599 | --                | --     | --   | --     | 15                    | 1,456  | 31   | 19,986  | 10        | 10,344 | 25          | 30,330     | 60.00              |
| Lower Mississippian<br>(Berea, Cussewago)  |           |        |        |           |      |        |                   |        |      |        |                       |        |      |         |           |        |             |            |                    |
| Ashland                                    | --        | --     | --     | 41        | 255  | 28478  | --                | --     | --   | --     | 41                    | --     | 255  | 28478   | 25        | 17169  | 66          | 45647      | 62.12              |
| Athens                                     | 2         | 380    | 2755   | 7         | 53   | 9330   | 14                | 1904   | 260  | 22379  | 23                    | 2284   | 313  | 34464   | 2         | 3329   | 25          | 37793      | 92.00              |
| Carroll                                    | --        | --     | --     | 1         | 1    | 1010   | --                | --     | --   | --     | 1                     | --     | 1    | 1010    | --        | --     | 1           | 1010       | 100.00             |
| Columbiana                                 | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 1         | 947    | 1           | 947        | 0.00               |
| Coshocton                                  | --        | --     | --     | 5         | 23   | 4000   | --                | --     | --   | --     | 5                     | --     | 23   | 4000    | --        | --     | 5           | 4000       | 100.00             |
| Gallia                                     | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 1         | 1453   | 1           | 1453       | 0.00               |
| Hocking                                    | --        | --     | --     | --        | --   | --     | 1                 | 200    | 1    | 800    | 1                     | 200    | 1    | 800     | --        | --     | 1           | 800        | 100.00             |
| Holmes                                     | 1         | 50     | 758    | --        | --   | --     | --                | --     | --   | --     | 1                     | 50     | --   | 758     | --        | --     | 1           | 758        | 100.00             |
| Jefferson                                  | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 1         | 1481   | 1           | 1481       | 0.00               |
| Knox                                       | --        | --     | --     | 2         | 3    | 1325   | --                | --     | --   | --     | 2                     | --     | 3    | 1325    | 1         | 806    | 3           | 2131       | 66.66              |
| Licking                                    | --        | --     | --     | 7         | 31   | 5087   | --                | --     | --   | --     | 7                     | --     | 31   | 5087    | 3         | 1874   | 10          | 6961       | 70.00              |
| Mahoning                                   | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 1         | 535    | 1           | 535        | 0.00               |
| Medina                                     | --        | --     | --     | 1         | 3    | 629    | --                | --     | --   | --     | 1                     | --     | 3    | 629     | 3         | 1719   | 4           | 2348       | 25.00              |
| Meigs                                      | 1         | 145    | 1994   | 1         | 5    | 1574   | --                | --     | --   | --     | 2                     | 145    | 5    | 3568    | 1         | 2250   | 3           | 5818       | 66.66              |
| Monroe                                     | 1         | 397    | 1925   | --        | --   | --     | --                | --     | --   | --     | 1                     | 397    | --   | 1925    | 1         | 1240   | 2           | 3165       | 50.00              |
| Morgan                                     | --        | --     | --     | 1         | 6    | 1623   | 1                 | 73     | 10   | 1284   | 2                     | 73     | 16   | 2907    | 1         | 1441   | 3           | 4348       | 66.66              |
| Noble                                      | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 3         | 4957   | 3           | 4957       | 0.00               |
| Perry                                      | 2         | 789    | 1830   | 3         | 6    | 3134   | --                | --     | --   | --     | 5                     | 789    | 6    | 4964    | --        | --     | 5           | 4964       | 100.00             |
| Tuscarawas                                 | 6         | 3331   | 5214   | 6         | 22   | 6084   | --                | --     | --   | --     | 12                    | 3331   | 22   | 11298   | 9         | 9020   | 21          | 20318      | 57.25              |
| Vinton                                     | --        | --     | --     | 8         | 54   | 8493   | 1                 | 500    | 24   | 1313   | 9                     | 500    | 78   | 9806    | 1         | 968    | 10          | 10774      | 90.00              |
| Washington                                 | 13        | 11831  | 23806  | 5         | 92   | 9242   | 5                 | 2553   | 21   | 9787   | 23                    | 14384  | 113  | 42115   | 3         | 4678   | 26          | 46793      | 88.46              |
| Wayne                                      | --        | --     | --     | --        | --   | --     | --                | --     | --   | --     | --                    | --     | --   | --      | 3         | 2003   | 3           | 2003       | 0.00               |
| Total                                      | 26        | 16,923 | 37,562 | 88        | 554  | 80,009 | 22                | 5,230  | 316  | 35,563 | 136                   | 22,153 | 870  | 153,134 | 60        | 55,870 | 196         | 209,004    | 69.38              |

TABLE IV

SUMMARY OF OIL AND GAS WELL DRILLING, BY PRODUCING ZONES AND COUNTIES, 1964<sup>(1)</sup>

| Producing Zone and County        | Gas Wells |         |         | Oil Wells |       |         | Combination Wells |        |       |         | Total Producing Wells |         |        |           | Dry Holes |         | Total Wells | Total Feet | Percent Productive |
|----------------------------------|-----------|---------|---------|-----------|-------|---------|-------------------|--------|-------|---------|-----------------------|---------|--------|-----------|-----------|---------|-------------|------------|--------------------|
|                                  | No.       | MCFGPD  | Feet    | No.       | BOPD  | Feet    | No.               | MCFGPD | BOPD  | Feet    | No.                   | MCFGPD  | BOPD   | Feet      | No.       | Feet    |             |            |                    |
| Ohio Shale                       |           |         |         |           |       |         |                   |        |       |         |                       |         |        |           |           |         |             |            |                    |
| Belmont                          | --        | --      | --      | --        | --    | --      | --                | --     | --    | --      | --                    | --      | --     | --        | 1         | 2255    | 1           | 2255       | 0.00               |
| Vinton                           | --        | --      | --      | --        | --    | --      | --                | --     | --    | --      | --                    | --      | --     | --        | 1         | 1141    | 1           | 1141       | 0.00               |
| Total                            | --        | --      | --      | --        | --    | --      | --                | --     | --    | --      | --                    | --      | --     | --        | 2         | 3396    | 2           | 3396       | 0.00               |
| Oriskany                         |           |         |         |           |       |         |                   |        |       |         |                       |         |        |           |           |         |             |            |                    |
| Guernsey                         | --        | --      | --      | 2         | 20    | 7209    | --                | --     | --    | --      | 2                     | --      | 20     | 7209      | --        | --      | 2           | 7209       | 100.00             |
| Hocking                          | --        | --      | --      | 1         | 6     | 1950    | --                | --     | --    | --      | 1                     | --      | 6      | 1950      | --        | --      | 1           | 1950       | 100.00             |
| Portage                          | 1         | 649     | 3195    | --        | --    | --      | --                | --     | --    | --      | 1                     | 649     | --     | 3195      | --        | --      | 1           | 3195       | 100.00             |
| Total                            | 1         | 649     | 3195    | 3         | 26    | 9159    | --                | --     | --    | --      | 4                     | 649     | 26     | 12,354    | --        | --      | 4           | 12,354     | 100.00             |
| "Newburg"                        |           |         |         |           |       |         |                   |        |       |         |                       |         |        |           |           |         |             |            |                    |
| Morrow                           | 4*        | 9510    | 4696    | --        | --    | --      | --                | --     | --    | --      | 4*                    | 9510    | --     | 4696      | 1         | 1651    | 5*          | 6347       | 80.00              |
| Richland                         | 2         | 2200    | 4376    | --        | --    | --      | --                | --     | --    | --      | 2                     | 2200    | --     | 4376      | 2         | 4155    | 4           | 8531       | 50.00              |
| Total                            | 6*        | 11,710  | 9,072   | --        | --    | --      | --                | --     | --    | --      | 6*                    | 11,710  | --     | 9,072     | 3         | 5,806   | 9*          | 14,878     | 66.66              |
| Albion -- "Clinton" and "Medina" |           |         |         |           |       |         |                   |        |       |         |                       |         |        |           |           |         |             |            |                    |
| Ashland                          | 1*        | 1500    | --      | --        | --    | --      | --                | --     | --    | --      | 1*                    | 1500    | --     | --        | 2         | 5150    | 3*          | 5150       | 33.33              |
| Ashtabula                        | 4         | 7131    | 13210   | --        | --    | --      | 1                 | 1042   | 5     | 3417    | 5                     | 8173    | 5      | 16627     | 1         | 3257    | 6           | 19884      | 83.60              |
| Athens                           | 2         | 814     | 7277    | --        | --    | --      | --                | --     | --    | --      | 2                     | 814     | --     | 7277      | --        | --      | 2           | 7277       | 100.00             |
| Carroll                          | --        | --      | --      | 1         | 60    | 5016    | --                | --     | --    | --      | 1                     | --      | 60     | 5016      | --        | --      | 1           | 5016       | 100.00             |
| Columbiana                       | --        | --      | --      | --        | --    | --      | --                | --     | --    | --      | --                    | --      | --     | --        | 1         | 5985    | 1           | 5985       | 0.00               |
| Coshocton                        | 3         | 818     | 10397   | 50        | 3222  | 165439  | 14                | 4807   | 779   | 47316   | 67                    | 5625    | 4001   | 223152    | 3         | 10066   | 70          | 233218     | 95.71              |
| Fairfield                        | --        | --      | --      | 2         | 20    | 4902    | 1                 | 100    | 60    | 2605    | 3                     | 100     | 80     | 7507      | 1         | 2655    | 4           | 10162      | 75.00              |
| Hocking                          | 4         | 4769    | 12227   | 6         | 197   | 17172   | 15                | 4043   | 505   | 44304   | 25                    | 8812    | 702    | 73703     | 2         | 5394    | 27          | 79097      | 92.59              |
| Holmes                           | 5         | 7265    | 16042   | 6         | 120   | 20042   | 5                 | 1993   | 96    | 16712   | 16                    | 9258    | 216    | 52796     | 1         | 4072    | 17          | 56868      | 94.11              |
| Jackson                          | --        | --      | --      | --        | --    | --      | --                | --     | --    | --      | --                    | --      | --     | --        | 1         | 2941    | 1           | 2941       | 0.00               |
| Knox                             | 4*        | 7943    | 5049    | 27*       | 1635  | 78381   | 9                 | 3103   | 707   | 26327   | 40                    | 11046   | 2342   | 109757    | 6         | 18078   | 46*         | 127835     | 86.95              |
| Licking                          | 3         | 2963    | 7903    | 31        | 1774  | 93634   | 33                | 11052  | 1619  | 99047   | 67                    | 14015   | 3393   | 200584    | 7         | 21015   | 74          | 221599     | 90.54              |
| Lorain                           | --        | --      | --      | --        | --    | --      | --                | --     | --    | --      | --                    | --      | --     | --        | 1         | 2236    | 1           | 2236       | 0.00               |
| Mahoning                         | 4         | 2251    | 20453   | --        | --    | --      | --                | --     | --    | --      | 4                     | 2251    | --     | 20453     | 1         | 5120    | 5           | 25573      | 80.00              |
| Medina                           | 6         | 9418    | 18572   | 5         | 160   | 17837   | 11                | 6173   | 741   | 37979   | 22                    | 15591   | 901    | 74388     | 6         | 21052   | 28          | 95440      | 78.57              |
| Morgan                           | 1         | 2500    | 4160    | --        | --    | --      | --                | --     | --    | --      | 1                     | 2500    | --     | 4160      | 1         | 4886    | 2           | 9046       | 50.00              |
| Muskingum                        | 7         | 6800    | 24388   | 7         | 335   | 22483   | 14                | 12432  | 408   | 48570   | 28                    | 19232   | 743    | 95441     | 1         | 4281    | 29          | 99722      | 96.55              |
| Perry                            | 5         | 6316    | 16554   | 14        | 440   | 41605   | 19                | 10445  | 955   | 83619   | 38                    | 16761   | 1395   | 121778    | 4         | 12119   | 42          | 133897     | 90.47              |
| Portage                          | 76        | 122429  | 352083  | 2         | 35    | 8982    | 21                | 14214  | 290   | 97179   | 99                    | 136643  | 325    | 458244    | 9         | 42432   | 108         | 500676     | 91.66              |
| Richland                         | --        | --      | --      | --        | --    | --      | --                | --     | --    | --      | --                    | --      | --     | --        | 7         | 18151   | 7           | 18151      | 0.00               |
| Scioto                           | --        | --      | --      | --        | --    | --      | --                | --     | --    | --      | --                    | --      | --     | --        | 1         | 2368    | 1           | 2368       | 0.00               |
| Stark                            | 2         | 1535    | 9641    | 1         | 15    | 4338    | --                | --     | --    | --      | 3                     | 1535    | 15     | 13979     | 3         | 14840   | 6           | 28819      | 50.00              |
| Summit                           | 4         | 2810    | 16943   | --        | --    | --      | 3                 | 2472   | 35    | 13272   | 7                     | 5282    | 35     | 30215     | --        | --      | 7           | 30215      | 100.00             |
| Trumbull                         | 1         | 1064    | 5201    | --        | --    | --      | --                | --     | --    | --      | 1                     | 1064    | --     | 5201      | 1         | 4490    | 2           | 9691       | 50.00              |
| Tuscarawas                       | 3         | 4192    | 15325   | --        | --    | --      | 4                 | 4310   | 45    | 20428   | 7                     | 8502    | 45     | 35753     | 2         | 10530   | 9           | 46283      | 77.77              |
| Vinton                           | 1         | 6730    | 3078    | --        | --    | --      | --                | --     | --    | --      | 1                     | 6730    | --     | 3078      | --        | --      | 1           | 3078       | 100.00             |
| Wayne                            | 2         | 3200    | 6908    | 1         | 30    | 3243    | 3                 | 898    | 88    | 10172   | 6                     | 4098    | 118    | 20323     | 3         | 9791    | 9           | 30114      | 66.66              |
| Total                            | 138*      | 202,448 | 565,411 | 153*      | 8,043 | 483,074 | 153               | 97,084 | 6,333 | 530,947 | 444*                  | 279,532 | 14,376 | 1,579,432 | 65        | 230,973 | 509*        | 1,810,405  | 87.23              |

TABLE IV  
SUMMARY OF OIL AND GAS WELL DRILLING, BY PRODUCING ZONES AND COUNTIES, 1964<sup>(1)</sup>

| Producing Zone and County                    | Gas Wells |        |       | Oil Wells |       |        | Combination Wells |        |      |      | Total Producing Wells |        |       |        | Dry Holes |        | Total Wells | Total Feet | Percent Productive |
|--|-----------|--------|-------|-----------|-------|--------|-------------------|--------|------|------|-----------------------|--------|-------|--------|-----------|--------|-------------|------------|--------------------|
|  | No.       | MCFGPD | Feet  | No.       | BOPD  | Feet   | No.               | MCFGPD | BOPD | Feet | No.                   | MCFGPD | BOPD  | Feet   | No.       | Feet   |             |            |                    |
| Ordovician Shale                             |           |        |       |           |       |        |                   |        |      |      |                       |        |       |        |           |        |             |            |                    |
| Delaware                                     | --        | --     | --    | 1*        | 25    | *      | --                | --     | --   | --   | 1*                    | --     | 25    | *      | 5         | 7989   | 6*          | 7989       | 16.66              |
| Total  | --        | --     | --    | 1*        | 25    | *      | --                | --     | --   | --   | 1*                    | --     | 25    | *      | 5         | 7989   | 6*          | 7989       | 16.66              |
| Trenton -- Black River                       |           |        |       |           |       |        |                   |        |      |      |                       |        |       |        |           |        |             |            |                    |
| Adams  | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 1         | 1720   | 1           | 1720       | 0.00               |
| Auglaize                                     | 2*        | 375    | 1720  | --        | --    | --     | --                | --     | --   | --   | 2*                    | 375    | --    | 1710   | 2         | 2747   | 4*          | 4457       | 50.00              |
| Defiance                                     | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 1         | 2048   | 1           | 2048       | 0.00               |
| Delaware                                     | 1*        | 4435   | *     | --        | --    | --     | --                | --     | --   | --   | 1*                    | 4435   | --    | *      | --        | --     | 1*          | *          | 100.00             |
| Hancock                                      | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 2         | 2909   | 2           | 2909       | 0.00               |
| Hardin                                       | 1         | 280    | 1468  | 2*        | 18    | *      | --                | --     | --   | --   | 3*                    | 280    | 18    | 1468   | --        | --     | 3*          | 1468       | 100.00             |
| Logan  | 5*        | 1470   | 5937  | --        | --    | --     | --                | --     | --   | --   | 5*                    | 1470   | --    | 5937   | 1         | 1500   | 6*          | 7437       | 83.33              |
| Marion                                       | 1*        | 1500   | *     | --        | --    | --     | --                | --     | --   | --   | 1*                    | 1500   | --    | *      | --        | --     | 1*          | *          | 100.00             |
| Putnam                                       | --        | --     | --    | 1         | 20    | 1408   | --                | --     | --   | --   | 1                     | --     | 20    | 1408   | --        | --     | 1           | 1408       | 100.00             |
| Seneca                                       | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 1         | 1596   | 1           | 1596       | 0.00               |
| Shelby                                       | --        | --     | --    | 1         | 10    | 1340   | --                | --     | --   | --   | 1                     | --     | 10    | 1340   | --        | --     | 1           | 1340       | 100.00             |
| Van Wert                                     | --        | --     | --    | 1         | 50    | 1245   | --                | --     | --   | --   | 1                     | --     | 50    | 1245   | 1         | 1280   | 2           | 2525       | 50.00              |
| Williams                                     | --        | --     | --    | 1         | 10    | 2224   | --                | --     | --   | --   | 1                     | --     | 10    | 2224   | 1         | 2156   | 2           | 4380       | 50.00              |
| Wood   | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 2         | 2504   | 2           | 2504       | 0.00               |
| Wyandot                                      | --        | --     | --    | 3         | 34    | 4324   | --                | --     | --   | --   | 3                     | --     | 34    | 4324   | 3         | 4162   | 6           | 8486       | 50.00              |
| Total  | 10*       | 8,060  | 9,115 | 9*        | 142   | 10,541 | --                | --     | --   | --   | 19*                   | 8,060  | 142   | 19,656 | 15        | 22,622 | 34*         | 42,278     | 55.88              |
| Ordovician -- "Chazy"<br>("Gull River")      |           |        |       |           |       |        |                   |        |      |      |                       |        |       |        |           |        |             |            |                    |
| Delaware                                     | --        | --     | --    | 1*        | 100   | *      | --                | --     | --   | --   | 1*                    | --     | 100   | *      | --        | --     | 1*          | *          | 100.00             |
| Morrow                                       | --        | --     | --    | 4*        | 1010  | *      | --                | --     | --   | --   | 4*                    | --     | 1010  | *      | 2         | 6005   | 8*          | 6005       | 88.66              |
| Richland                                     | 1*        | 532    | *     | --        | --    | --     | --                | --     | --   | --   | 1*                    | 532    | --    | *      | --        | --     | 1*          | *          | 100.00             |
| Total  | 1*        | 532    | *     | 5*        | 1,110 | *      | --                | --     | --   | --   | 6*                    | 532    | 1,110 | *      | 2         | 6,005  | 8*          | 6,005      | 75.00              |
| Cambrian<br>(Copper Ridge;<br>"Trempealeau") |           |        |       |           |       |        |                   |        |      |      |                       |        |       |        |           |        |             |            |                    |
| Allen  | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 4         | 9227   | 4           | 9227       | 0.00               |
| Ashland                                      | --        | --     | --    | --        | --    | --     | 1                 | 2000   | 140  | 4262 | 1                     | 2000   | 140   | 4262   | 9         | 40336  | 10          | 44598      | 10.00              |
| Auglaize                                     | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 5         | 11815  | 5           | 11815      | 0.00               |
| Champaign                                    | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 5         | 12018  | 5           | 12018      | 0.00               |
| Clark  | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 1         | 2203   | 1           | 2203       | 0.00               |
| Clinton                                      | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 1         | 3325   | 1           | 3325       | 0.00               |
| Crawford                                     | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 27        | 85883  | 27          | 85883      | 0.00               |
| Delaware                                     | --        | --     | --    | 15        | 692   | 44001  | --                | --     | --   | --   | 15                    | --     | 692   | 44001  | 148       | 450342 | 163         | 494343     | 9.20               |
| Erie   | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 1         | 3045   | 1           | 3045       | 0.00               |
| Fairfield                                    | 2         | 10240  | 6509  | --        | --    | --     | --                | --     | --   | --   | 2                     | 10240  | --    | 6509   | 9         | 30359  | 11          | 36868      | 18.18              |
| Fayette                                      | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 1         | 3643   | 1           | 3643       | 0.00               |
| Franklin                                     | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 7         | 21725  | 7           | 21725      | 0.00               |
| Fulton                                       | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 1         | 2793   | 1           | 2793       | 0.00               |
| Hancock                                      | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 6         | 12005  | 6           | 12005      | 0.00               |
| Hardin                                       | --        | --     | --    | --        | --    | --     | --                | --     | --   | --   | --                    | --     | --    | --     | 11        | 27102  | 11          | 27102      | 0.00               |

TABLE IV  
SUMMARY OF OIL AND GAS WELL DRILLING, BY PRODUCING ZONES AND COUNTIES, 1964<sup>(1)</sup>

| Producing Zone and County | Gas Wells |        |        | Oil Wells |        |           | Combination Wells |        |       |        | Total Producing Wells |        |        |           | Dry Holes |           | Total Wells | Total Feet | Percent Productive |
|---------------------------|-----------|--------|--------|-----------|--------|-----------|-------------------|--------|-------|--------|-----------------------|--------|--------|-----------|-----------|-----------|-------------|------------|--------------------|
|                           | No.       | MCFGPD | Feet   | No.       | BOPD   | Feet      | No.               | MCFGPD | BOPD  | Feet   | No.                   | MCFGPD | BOPD   | Feet      | No.       | Feet      |             |            |                    |
| Cambrian (con.)           |           |        |        |           |        |           |                   |        |       |        |                       |        |        |           |           |           |             |            |                    |
| Henry                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 2385      | 1           | 2385       | 0.00               |
| Highland                  | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 2392      | 1           | 2392       | 0.00               |
| Holmes                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 4         | 23817     | 4           | 23817      | 0.00               |
| Huron                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 8         | 28975     | 8           | 28975      | 0.00               |
| Jackson                   | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 6320      | 1           | 6320       | 0.00               |
| Knox                      | --        | --     | --     | 2         | 50     | 8379      | --                | --     | --    | --     | 2                     | --     | 50     | 8379      | 25        | 123219    | 27          | 131598     | 74.07              |
| Licking                   | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 5         | 23822     | 5           | 23822      | 0.00               |
| Logan                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 9         | 23984     | 9           | 23984      | 0.00               |
| Lorain                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 4404      | 1           | 4404       | 0.00               |
| Madison                   | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 2244      | 1           | 2244       | 0.00               |
| Mahoning                  | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 8194      | 1           | 8194       | 0.00               |
| Marion                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 45        | 119119    | 45          | 119119     | 0.00               |
| Mercer                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 2         | 3520      | 2           | 3520       | 0.00               |
| Morrow                    | 7         | 16159  | 29549  | 407       | 93908  | 1329833   | 9                 | 7395   | 2028  | 31367  | 423                   | 23554  | 95936  | 1390749   | 907       | 3019464   | 1330        | 4410213    | 31.80              |
| Perry                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 4549      | 1           | 4549       | 0.00               |
| Pickaway                  | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 6         | 19035     | 6           | 19035      | 0.00               |
| Pike                      | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 3         | 10639     | 3           | 10639      | 0.00               |
| Putnam                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 2         | 3950      | 2           | 3950       | 0.00               |
| Richland                  | 1         | 250    | 4097   | --        | --     | --        | --                | --     | --    | --     | 1                     | 250    | --     | 4097      | 32        | 138077    | 33          | 142174     | 3.03               |
| Ross                      | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 5         | 18244     | 5           | 18244      | 0.00               |
| Sandusky                  | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 4         | 9426      | 4           | 9426       | 0.00               |
| Scioto                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 4320      | 1           | 4320       | 0.00               |
| Seneca                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 12        | 28855     | 12          | 28855      | 0.00               |
| Shelby                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 2         | 4427      | 2           | 4427       | 0.00               |
| Union                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 17        | 41446     | 17          | 41446      | 0.00               |
| Van Wert                  | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 2130      | 1           | 2130       | 0.00               |
| Vinton                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 4072      | 1           | 4072       | 0.00               |
| Wayne                     | --        | --     | --     | --        | --     | --        | 1                 | 200    | 10    | 5820   | 1                     | 200    | 10     | 5820      | 1         | 5869      | 2           | 11689      | 50.00              |
| Wood                      | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 2         | 4976      | 2           | 4976       | 0.00               |
| Wyandot                   | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 12        | 26658     | 12          | 26658      | 0.00               |
| Total                     | 10        | 26,649 | 40,155 | 423       | 94,650 | 1,382,213 | 11                | 9,595  | 2,178 | 41,449 | 444                   | 36,244 | 96,828 | 1,463,817 | 1,349     | 4,434,353 | 1,793       | 5,898,170  | 24.76              |
| Precambrian               |           |        |        |           |        |           |                   |        |       |        |                       |        |        |           |           |           |             |            |                    |
| Adams                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 3790      | 1           | 3790       | 0.00               |
| Clark                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 3570      | 1           | 3570       | 0.00               |
| Hancock                   | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 2         | 5814      | 2           | 5814       | 0.00               |
| Jackson                   | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 2         | 11672     | 2           | 11672      | 0.00               |
| Marion                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 3452      | 1           | 3452       | 0.00               |
| Morrow                    | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 4215      | 1           | 4215       | 0.00               |
| Ross                      | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 3863      | 1           | 3863       | 0.00               |
| Union                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 2989      | 1           | 2989       | 0.00               |
| Wood                      | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 1         | 2770      | 1           | 2770       | 0.00               |
| Wyandot                   | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 2         | 5777      | 2           | 5777       | 0.00               |
| Total                     | --        | --     | --     | --        | --     | --        | --                | --     | --    | --     | --                    | --     | --     | --        | 13        | 47,912    | 13          | 47,912     | 0.00               |

(1) Wells drilled deeper, for gas storage, and for secondary recovery are not included.  
\* Includes plugged back producing zone; footage assigned to deepest unit penetrated.



TABLE V  
ANNUAL CRUDE OIL PRODUCTION AND RESERVES<sup>(1)</sup>  
1955-1964

| Year | Production<br>(Thous.<br>Bbls.) | Number<br>of | Annual<br>Prod. Per<br>Well (Bbls.) | Reserves<br>(Thous.<br>Bbls.) |
|------|---------------------------------|--------------|-------------------------------------|-------------------------------|
| 1955 | 4,387                           | 14,819       | 296                                 | 56,000                        |
| 1956 | 4,923                           | 14,057       | 350                                 | 63,575                        |
| 1957 | 5,553                           | 14,128       | 323                                 | 68,150                        |
| 1958 | 6,507                           | 13,813       | 417                                 | 70,709                        |
| 1959 | 5,992                           | 13,912       | 431                                 | 73,539                        |
| 1960 | 5,050                           | 13,460       | 375                                 | 74,677                        |
| 1961 | 5,639                           | 13,500       | 418                                 | 75,734                        |
| 1962 | 5,822                           | 13,075       | 445                                 | 77,321                        |
| 1963 | 6,039                           | 13,207       | 457                                 | 87,814                        |
| 1964 | 15,850                          | 13,752       | 1,153                               | 99,562                        |

(1) From A. P. I.

Total production through 1964 -- 702,839,000 bbls.

TABLE VI  
ANNUAL CRUDE OIL PRODUCTION, BY GRADES, 1955-1964<sup>(1)</sup>  
(Thousand Barrels)

| Year | Buckeye<br>Pennsylvania | Zanesville | Corning | Lima | Cleveland<br>Chatham | Cambrian | Total |
|------|-------------------------|------------|---------|------|----------------------|----------|-------|
| 1955 | 1153                    | 183        | 2629    | 90   | 332                  |          | 4387  |
| 1956 | 1177                    | 172        | 3169    | 88   | 317                  |          | 4923  |
| 1957 | 1179                    | 159        | 3853    | 74   | 288                  |          | 5553  |
| 1958 | 1303                    | 113        | 4739    | 71   | 281                  |          | 6507  |
| 1959 | 1212                    | 300        | 4146    | 61   | 273                  |          | 5992  |
| 1960 | 1103                    | 233        | 3389    | 60   | 265                  |          | 5050  |
| 1961 | 1621                    | 336        | 3358    | 59   | 265                  |          | 5639  |
| 1962 | 1651                    | 369        | 3535    | 57   | 210                  |          | 5822  |
| 1963 | 1090                    | 401        | 4304    | 49   | 195                  |          | 6039  |
| 1964 | 1405                    | 346        | 3417    | 45   | 161                  | 10476    | 15850 |

(1) From A. P. I.

TABLE VII

CRUDE OIL PRICE QUOTATIONS BY GRADES, 1963-1964<sup>(1)</sup>

| Date     | Buckeye<br>Pennsylvania | Zanesville | Corning   | Lima                      | Cleveland<br>Chatham | Cambrian                                  |
|----------|-------------------------|------------|---|---------------------------|----------------------|---|
| 1-1-63   | \$3.91                  | \$2.97     | \$2.72<br>2.77 <sup>a</sup><br>3.02 <sup>b</sup>            | \$2.60                    | \$2.67               |   |
| 1-16-63  |                         |            | 2.77  |                           |                      |   |
| 10-9-63  |                         |            | 2.67 <sup>a</sup><br>2.92 <sup>b</sup><br>3.05 <sup>c</sup> |                           |                      |   |
| 10-11-63 |                         |            | 2.67  |                           |                      |   |
| 12-3-63  | 3.76 <sup>d</sup>       |            |   |                           |                      |   |
| 1-1-64   | 3.61                    | 2.97       | 2.67  | 2.50<br>2.60 <sup>e</sup> | 2.67                 | 2.92 <sup>a, e</sup><br>2.98 <sup>c</sup> |

(1) From Ohio Oil and Gas Association

a Ashland

b Ashland-Morrow County, FOB pipeline

c Pure-Morrow County, FOB refinery

d Pennzoil

e Sohio

TABLE VIII

ANNUAL GAS PRODUCTION, CONSUMPTION, AND RESERVES, 1955-1964  
(Million Cubic Feet)

| Year | Production | Consump-<br>tion <sup>(2)</sup> | Reserves <sup>(1)</sup><br>Exclusive<br>of Net<br>Storage | Net Change<br>in Storage | Net <sup>(1)</sup><br>Storage |
|------|------------|---------------------------------|---|--------------------------|-------------------------------|
| 1955 | 35,081     | 500,865                         | 617,511   | 15,661                   | 192,363                       |
| 1956 | 31,727     | 561,557                         | 641,319   | 19,925                   | 212,288                       |
| 1957 | 32,261     | 583,753                         | 672,406   | 17,120                   | 229,408                       |
| 1958 | 33,875     | 618,022                         | 575,370   | 13,274                   | 242,682                       |
| 1959 | 36,311     | 670,618                         | 479,693   | 26,391                   | 269,073                       |
| 1960 | 39,309     | 691,833                         | 483,384   | 13,096                   | 282,169                       |
| 1961 | 38,941     | 719,674                         | 430,408   | 21,260                   | 303,429                       |
| 1962 | 37,330     | 756,398                         | 435,578   | (7,132)                  | 296,297                       |
| 1963 | 38,500     | 797,318                         | 442,954   | 8,936                    | 305,233                       |
| 1964 | 37,713     | --                              | 389,240   | 14,948                   | 320,181                       |

(1) From A. G. A.

(2) From U. S. Bureau of Mines

Total production through 1964 -- 3,198,368 MMCF.